

Thermochimica Acta 276 (1996) 289-293

thermochimica acta

Subject index

Acetamide

Cryoscopic behavior in the binary mixtures of acetamide-sodium acetate and acetamide-sodium acetate trihydrate 17

Acidification

Direct calorimetry of aquatic animals: effects of the combination of acidification and hypoxia on the metabolic rate of fish 7

Activity coefficients

Cryoscopic behavior in the binary mixtures of acetamide–sodium acetate and acetamide–sodium acetate trihydrate 17

Additives

The effect of metallic salt additives on direct sulfation of calcium carbonate and on decomposition of sulfated samples 257

Adiabatic calorimetry

Thermokinetic investigation of methanesulfonyl chloride-water system 221

Akermanite

Differential and integral enthalpies of solution of akermanite and pseudo-wollastonite in the melts of the system Ca₂MgSi₂O₇-CaSiO₃. Isoplethal enthalpies in this system 49

Al-C mixtures

TG-DTA-MS study of self-ignition in selfpropagating high-temperature synthesis of mechanically activated Al-C powder mixtures 123

Alkanes

Accurate temperature calibration of differential scanning calorimeters 27

Almond shells

Comparative study of the pyrolysis of almond shells and their fractions, holocellulose and lignin. Product yields and kinetics 57

Amorphization

Thermal analysis of cation-exchanged zeolites before and after their amorphization by ball milling 91

Anomalous oxidation

Investigations on the anomalous oxidation

behaviour of high-carbon gas-based direct reduced iron (DRI) 199

Ball milling

Thermal analysis of cation-exchanged zeolites before and after their amorphization by ball milling 91

Benzene

Excess heat of mixing of 1-propanol or 2-propanol with benzene, toluene, o-, m- and p-xylenes at 298.15 K 271

Bimetallic precursors of catalysts

Copper-zinc oxide catalyst. Part II. Preparation, IR characterization and thermal properties of novel bimetallic precursors 209

Binary phase diagram

Binary phase diagram of molecular alloys of the consecutive even-numbered n-alkanes n-tetracosane (n-C $_{24}H_{50}$) and n-hexacosane (n-C $_{26}H_{54}$) 243

Biological system

Direct calorimetry of aquatic animals: effects of the combination of acidification and hypoxia on the metabolic rate of fish 7

4,4'-Bis(6-Hydroxyhexoxy)biphenyl

Correlation of observations made by DSC and hot-stage optical microscopy of the thermal properties of a monotropic liquid-crystal polyester 145

Calcium carbonate

The effect of metallic salt additives on direct sulfation of calcium carbonate and on decomposition of sulfated samples 257

Calibration

Accurate temperature calibration of differential scanning calorimeters 27

The Perkin-Elmer 1020 series thermal analysis system 161

Calorimeter

Direct calorimetry of aquatic animals: effects of the combination of acidification and hypoxia on the metabolic rate of fish 7

Ca₂MgSi₂O₇-CaSiO₃ system

Differential and integral enthalpies of solution of akermanite and pseudo-wollastonite in the melts of the system Ca₂MgSi₂O₇-CaSiO₃. Isoplethal enthalpies in this system 49

Cation exchange

Thermal analysis of cation-exchanged zeolites before and after their amorphization by ball milling 91

Coal-based DRI

Investigations on the anomalous oxidation behaviour of high-carbon-gas-based direct reduced iron (DRI) 199

Complex salts

Thermal decomposition characteristics of ammonium hexachlorometallate(IV) complex salts of platinum metals 115

Cooling measurements

Accurate temperature calibration of differential scanning calorimeters 27

Copper-zinc oxide catalysts

Copper-zinc oxide catalyst. Part II. Preparation, IR characterization and thermal properties of novel bimetallic precursors 209

Crystalline-plastic-liquid transition

Accurate temperature calibration of differential scanning calorimeters 27

Curing

Microcalorimetric determination of the cure reaction in some fluorinated polyether rubbers 131

Decomposition

Thermal stability of nickel complexes formed with phenylazothioalkylcarboximides in various solvents 79

Differential and integral enthalpy of solution

Differential and integral enthalpies of solution of akermanite and pseudo-wollastonite in the melts of the system Ca₂MgSi₂O₇-CaSiO₃. Isoplethal enthalpies in this system 49

Differential enthalpimetry

Binary phase diagram of molecular alloys of the consecutive even-numbered n-alkanes n-tetracosane (n- $C_{24}H_{50}$) and n-hexacosane (n- $C_{26}H_{54}$) 243

Differential thermal analysis

On the phase diagram of the binary system Sc_2O_3 - ScF_3 in the temperature range 1400–1840 K 1

Direct calorimetry

Metabolic cost of ventilating movements in pupae of Tenebrio molitor and Galleria mellonella studied by direct calorimetry 41

Direct reduced iron (DRI)

Investigations on the anomalous oxidation behaviour of high-carbon-gas-based direct reduced iron (DRI) 199

DSC

Accurate temperature calibration of differential scanning calorimeters 27

Binary phase diagram of molecular alloys of the consecutive even-numbered n-alkanes n-tetracosane (n- $C_{24}H_{50}$) and n-hexacosane (n- $C_{26}H_{54}$) 243

Correlation of observations made by DSC and hot-stage optical microscopy of the thermal properties of a monotropic liquid-crystal polyecter 145

Cryoscopic behavior in the binary mixtures of acetamide-sodium acetate and acetamide-sodium acetate trihydrate 17

The Perkin-Elmer 1020 series thermal analysis system 161

Thermal stability of nickel complexes formed with phenylazothioalkylcarboximides in various solvents 79

DTA

Binary phase diagram of molecular alloys of the consecutive even-numbered n-alkanes n-tetracosane (n-C₂₄H₅₀) and n-hexacosane (n-C₂₆H₅₄) 243

Thermal decomposition characteristics of ammonium hexachlorometallate(IV) complex salts of platinum metals 115

Fish

Direct calorimetry of aquatic animals: effects of the combination of acidification and hypoxia on the metabolic rate of fish 7

Galleria

Metabolic cost of ventilating movements in pupae of Tenebrio molitor and Galleria mellonella studied by direct calorimetry 41

Grinding

TG-DTA-MS study of self-ignition in self-propagating high-temperature synthesis of mechanically activated Al-C powder mixtures 123

Heat of mixing

Excess heat of mixing of 1-propanol or 2-propanol with benzene, toluene, o-, m- and p-xylenes at 298.15 K 271

Heterogeneous reaction kinetics

Thermokinetic investigation of methanesulfonyl chloride-water system 221

Hexachlorometallate(IV)

Thermal decomposition characteristics of ammonium hexachlorometallate(IV) complex salts of platinum metals 115

High-carbon gas-based DRI

Investigations on the anomalous oxidation behaviour of high-carbon-gas-based direct reduced iron (DRI) 199

Holocellulose

Comparative study of the pyrolysis of almond shells and their fractions, holocellulose and lignin. Product yields and kinetics 57

Hydrolysis

Thermokinetic investigation of methanesulfonyl chloride-water system 221

Hypoxia

Direct calorimetry of aquatic animals: effects of the combination of acidification and hypoxia on the metabolic rate of fish 7

Insects

Metabolic cost of ventilating movements in pupae of Tenebrio molitor and Galleria mellonella studied by direct calorimetry 41

Interactions

Interactions in polymer blends based on polyesterurethanes investigated by thermal analysis 175

Ionic conductivity

Conductivity and thermal studies of polymer electrolytes based on polyetheresters 105

IR

Copper-zinc oxide catalyst. Part II. Preparation, IR characterization and thermal properties of novel bimetallic precursors 209

Isophthalic acid

Correlation of observations made by DSC and hot-stage optical microscopy of the thermal properties of a monotropic liquid-crystal polyester 145

Isoplethal enthalpy

Differential and integral enthalpies of solution of akermanite and pseudo-wollastonite in the melts of the system Ca₂MgSi₂O₇-CaSiO₃. Isoplethal enthalpies in this system 49

Kinetic parameters

The incorrectness of the temperature criterion 189

Kinetics

Microcalorimetric determination of the cure reaction in some fluorinated polyether rubbers 131

X-Ray diffraction and microcalorimetry study of the $\alpha \rightarrow \beta$ transformation of tripalmitin 229

Lignin

Comparative study of the pyrolysis of almond shells and their fractions, holocellulose and lignin. Product yields and kinetics 57

Liquid-crystals

Accurate temperature calibration of differential scanning calorimeters 27

Locomotion

Metabolic cost of ventilating movements in pupae of Tenebrio molitor and Galleria mellonella studied by direct calorimetry 41

Mechanical activation

TG-DTA-MS study of self-ignition in selfpropagating high-temperature synthesis of mechanically activated Al-C powder mixtures 123

Melting point depression

Cryoscopic behavior in the binary mixtures of acetamide-sodium acetate and acetamide-sodium acetate trihydrate 17

Metabolic depression

Direct calorimetry of aquatic animals: effects of the combination of acidification and hypoxia on the metabolic rate of fish 7

Metabolism

Metabolic cost of ventilating movements in pupae of Tenebrio molitor and Galleria mellonella studied by direct calorimetry 41

Metallic salts

The effect of metallic salt additives on direct sulfation of calcium carbonate and on decomposition of sulfated samples 257

Methanesulfonyl chloride-water

Thermokinetic investigation of methanesulfonyl chloride-water system 221

Methanol synthesis

Copper-zinc oxide catalyst. Part II. Preparation, IR characterization and thermal properties of novel bimetallic precursors 209

Microcalorimetry

Microcalorimetric determination of the cure reaction in some fluorinated polyether rubbers 131

X-Ray diffraction and microcalorimetry study of the $\alpha \rightarrow \beta$ transformation of tripalmitin 229

Model

Excess heat of mixing of 1-propanol or 2-propanol with benzene, toluene, o-, m- and p-xylenes at 298.15 K 271

Molecular alloy n-Hexacosane

Binary phase diagram of molecular alloys of the consecutive even-numbered n-alkanes n-tetracosane (n-C $_{24}$ H $_{50}$) and n-hexacosane (n-C $_{26}$ H $_{54}$) 243

Molecular alloy n-Tetracosane

Binary phase diagram of molecular alloys of the consecutive even-numbered n-alkanes n-tetracosane (n- $C_{24}H_{50}$) and n-hexacosane (n- $C_{26}H_{54}$) 243

Monotropic liquid-crystal

Correlation of observations made by DSC and hot-stage optical microscopy of the thermal properties of a monotropic liquid-crystal polyester 145

Nickel complexes

Thermal stability of nickel complexes formed with phenylazothioalkylcarboximides in various solvents 79

Optical microscopy

Correlation of observations made by DSC and hot-stage optical microscopy of the thermal properties of a monotropic liquid-crystal polyester 145

Phase diagram

On the phase diagram of the binary system Sc_2O_3 - ScF_3 in the temperature range 1400–1840 K 1

Phenylazothioalkylcarboximides

Thermal stability of nickel complexes formed with phenylazothioalkylcarboximides in various solvents 79

Platinum metals

Thermal decomposition characteristics of ammonium hexachlorometallate(IV) complex salts of platinum metals 115

Polyester

Correlation of observations made by DSC and hot-stage optical microscopy of the thermal properties of a monotropic liquid-crystal polyester 145

Polyesterurethanes

Interactions in polymer blends based on polyesterurethanes investigated by thermal analysis 175

Polyetherester

Conductivity and thermal studies of polymer electrolytes based on polyetheresters 105

Polymer blends

Interactions in polymer blends based on polyesterurethanes investigated by thermal analysis 175

Polymer electrolyte

Conductivity and thermal studies of polymer electrolytes based on polyetheresters 105

Polymorphism

X-Ray diffraction and microcalorimetry study of the $\alpha \rightarrow \beta$ transformation of tripalmitin 229

Polyurethanes

Microcalorimetric determination of the cure reaction in some fluorinated polyether rubbers 131

Power-compensated DSC

Accurate temperature calibration of differential scanning calorimeters 27

Propanol

Excess heat of mixing of 1-propanol or 2-propanol with benzene, toluene, o-, m- and p-xy-lenes at 298.15 K 271

Pseudo-wollastonite

Differential and integral enthalpies of solution of akermanite and pseudo-wollastonite in the melts of the system Ca₂MgSi₂O₇-CaSiO₃. Isoplethal enthalpies in this system 49

Pyrolysis

Comparative study of the pyrolysis of almond shells and their fractions, holocellulose and lignin. Product yields and kinetics 57

Rubber

Microcalorimetric determination of the cure reaction in some fluorinated polyether rubbers 131

Scandium oxide fluoride

On the phase diagram of the binary system Sc_2O_3 - ScF_3 in the temperature range 1400-1840 K 1

Scandium trifluoride

On the phase diagram of the binary system $Sc_2O_3-ScF_3$ in the temperature range 1400 - 1840 K 1

Self-propagating high-temperature synthesis (SHS)

TG-DTA-MS study of self-ignition in selfpropagating high-temperature synthesis of mechanically activated Al-C powder mixtures 123

Sodium acetate

Cryoscopic behavior in the binary mixtures of acetamide-sodium acetate and acetamide-sodium acetate trihydrate 17

Sponge iron

Investigations on the anomalous oxidation behaviour of high-carbon-gas-based direct reduced iron (DRI) 199

Spontaneous combustion

Investigations on the anomalous oxidation behaviour of high-carbon-gas-based direct reduced iron (DRI) 199

Sulfation

The effect of metallic salt additives on direct sulfation of calcium carbonate and on decomposition of sulfated samples 257

Temperature criterion

The incorrectness of the temperature criterion 189

Temperature integral

The incorrectness of the temperature criterion 189

Temperature profiles

Accurate temperature calibration of differential scanning calorimeters 27

Tenebrio

Metabolic cost of ventilating movements in pupae of Tenebrio molitor and Galleria mellonella studied by direct calorimetry 41

TG

Thermal decomposition characteristics of ammonium hexachlorometallate(IV) complex salts of platinum metals 115

Thermal stability of nickel complexes formed with phenylazothioalkylcarboximides in various solvents 79

TGA

The effect of metallic salt additives on direct sulfation of calcium carbonate and on decomposition of sulfated samples 257

TG-DTA

Copper-zinc oxide catalyst. Part II. Preparation, IR characterization and thermal properties of novel bimetallic precursors 209

TG-DTA-MS

TG-DTA-MS study of self-ignition in self-propagating high-temperature synthesis of mechanically activated Al-C powder mixtures 123

Thermal analysis

Copper-zinc oxide catalyst. Part II. Preparation, IR characterization and thermal properties of novel bimetallic precursors 209

Interactions in polymer blends based on polyesterurethanes investigated by thermal analysis 175

Thermal analysis of cation-exchanged zeolites before and after their amorphization by ball milling 91

Thermal decomposition

The incorrectness of the temperature criterion 189

Thermal diffusivity

Accurate temperature calibration of differential scanning calorimeters 27

Thermal history

Correlation of observations made by DSC and hot-stage optical microscopy of the thermal properties of a monotropic liquid-crystal polyester 145

Thermal property

Conductivity and thermal studies of polymer electrolytes based on polyetheresters 105

Thermoelectric coolers

The Perkin-Elmer 1020 series thermal analysis system 161

Thermogravimetry

Comparative study of the pyrolysis of almond shells and their fractions, holocellulose and lignin. Product yields and kinetics 57

The incorrectness of the temperature criterion 189

Thiosemicarbazide derivatives

Thermal stability of nickel complexes formed with phenylazothioalkylcarboximides in various solvents 79

Toluene

Excess heat of mixing of 1-propanol or 2-propanol with benzene, toluene, o-, m- and p-xylenes at 298.15 K 271

Triglycerides

X-Ray diffraction and microcalorimetry study of the $\alpha \rightarrow \beta$ transformation of tripalmitin 229

X-ray diffraction

Binary phase diagram of molecular alloys of the consecutive even-numbered n-alkanes n-tetracosane (n-C₂₄H₅₀) and n-hexacosane (n-C₂₆H₅₄) 243

X-Ray diffraction and microcalorimetry study of the $\alpha \rightarrow \beta$ transformation of tripalmitin 229

Xylene

Excess heat of mixing of 1-propanol or 2-propanol with benzene, toluene, o-, m- and p-xylenes at 298.15 K 271

Zeolites

Thermal analysis of cation-exchanged zeolites before and after their amorphization by ball milling 91