

**RECOMMENDED AND NONRECOMMENDED TERMS IN SLOVAK  
NOMENCLATURE IN THERMAL ANALYSIS**

Vladimír Štefan Fajnor

Department of Inorganic Chemistry, Faculty of Natural Sciences  
Comenius University, 842 15 Bratislava, ČSSR

At the 8<sup>th</sup> Conference "Thermanal" the proposition of the Slovak terminology in the thermal analysis was presented /1/. It was prepared on the basis of four reports of the Nomenclature Committee ICTA /2,3,4,5/. This proposition was positively accepted by the members of the ICTA committee G.Lombardi /6/ and R.C.Mackenzie /7/.

At the 9<sup>th</sup> Conference "Thermanal" this proposition was corrected /8/ and then J.Šeeták, P.Holba and V.Š.Fajnor published "The System of Czech and Slovak Terms and Names Used in Thermal Analysis" /9/. That work was prepared on the basis of five reports of Nomenclature Committee ICTA /2,3,4,5,10/ and on the basis of provisional proposition Czech nomenclature in thermal analysis /11/. Recommended thermoanalytical nomenclature /9/ is given in three basic parts: Thermal analysis /general definition, basic classification, and individual methods/, Experimental arrangement /specimens, sensors, e.t.c./ and Characterization of thermoanalytical curves. The paper contains as supplement the description and classification of processes and the listing of most important symbols.

Though, the recommendations in the First Reports of the Nomenclature Committee of the International Confederation for Thermal Analysis was published in 1969 and the first proposition of the Slovak terminology in thermal analysis was published in 1979, the Slovak terminology is still inconsistent. That is the reason why at the occasion of the 8<sup>th</sup> International Conference on Thermal Analysis in Bratislava and the jubilee 10<sup>th</sup> Conference "Thermanal" we draw attention to unification of the Slovak terminology in agreement with the international terminology. Below, there are listed commonly used Slovak terms in thermal analysis which are usually used inconsistently:

TERMS OF THE NOMENCLATURE COMMITTEE ICTA	RECOMMENDED TERMS IN SLOVAK NOMENCLATURE	NONRECOMMENDED TERMS /IN SLOVAK/
THERMAL ANALYSIS	Termická analýza	Termografia, Termoanalýza
DIFFERENTIAL THERMAL ANALYSIS	Diferenčná termická analýza	Diferenciálna termická analýza
THERMOGRAVIMETRY	Termogravimetria	Termogravimetrická analýza, Vážková termická analýza, Váhová termická analýza, Gravimetrická termická analýza
DIFFERENTIAL SCANNING CALORIMETRY	Diferenčná kompenzačná kalorimetria	Diferenčná skanovacia kalorimetria, Entalpická termická analýza, Diferenčná snímacia kalorimetria, Diferenčná výkonová analýza, - Diferenčná entalpická analýza
THERMODILATOMETRY	Termodilatometria	Termodilatometrická analýza, Termická dilatometrická analýza, Dilatometria
EVOLVED GAS DETECTION	Detakcia uvoľňovaných plynov	Termegasvolumetria, Termomenovolumetria, Termegasmanometria
EVOLVED GAS ANALYSIS	Analýza uvoľňovaných plynov	Termogaavolumetria, Termegasmanometria, Termomenovolumetria

TERMS OF THE NOMENCLATURE COMMITTEE ICTA	RECOMMENDED TERMS IN SLOVAK NOMENCLATURE	NONRECOMMENDED TERMS /IN SLOVAK/
HEATING CURVE DETERMINATION	Priama termická analýza	Termická analýza, Krivky ohrevu, Klasická termická analýza
REFERENCE MATERIAL	porovnávací /referenčný/ materiál	štandard
THERMOANALYTICAL CURVES	termoanalytická krivka	termogram, termická krivka, termolytická krivka
PEAK	pík, /endoterma alebo exoterma/	odchylka, vrchol, maximum, extrém, vlna.

REFERENCES

- 1 V.Š.Fajnor, Proc. Thermanal '79, p.49. Edit. SVŠT, Bratislava 1979
- 2 R.C.Mackenzie, Talanta 16 /1969/ 1227
- 3 R.C.Mackenzie, C.J.Keattch, D.Dollimore, J.A.Forrester, A.A.Hodgson, J.P.Redfern, Talanta 19 /1972/ 1079
- 4 R.C.Mackenzie, C.J.Keattch, T.Daniels, D.Dollimore, J.A.Forrester, J.P.Redfern, J.H.Sharp, J.Thermal Anal. 8 /1975/ 197
- 5 R.C.Mackenzie, J.Thermal Anal. 13 /1978/ 387
- 6 G.Lombardi, For Better Thermal Analysis. Second edition, p.15. ICTA and Universita di Roma, Roma 1980
- 7 R.C.Mackenzie, J.Thermal Anal. 21 /1981/ 173
- 8 V.Š.Fajnor, P.Holba, J.Šesták, Proc. Thermanal '82, p.7. Edit. SVŠT, Bratislava 1982
- 9 J.Šesták, P.Holba, V.Š.Fajnor, Chem. Listy 77 /1983/ 1292
- 10 R.C.Mackenzie, Thermochim. Acta 46 /1981/ 333
- 11 P.Holba /edit./, Metody kalibrace a standardizace v termické analyze, p.14. Dům techniky ČVTS, Ústí n.L. 1976