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Unique	Microelemental analysis data of complexes are in agreement with the general formula $Gd[S_2CNR'R'']_3Phen$ (R' = ethyl, methyl; R'' = butyl, heptyl, isopropyl, isobutyl, benzyl and cyclohexyl; Phen = 1,10-phenanthroline)	-
Unique	These complexes have been characterized using elemental analysis, infrared, thermogravimetric analysis, conductivity and magnetic measurements	-
Unique	Infrared spectra of complexes showed the thioureide $\nu(C-N)$ bands were in the region of 1450 - 1490 cm^{-1}	-
Unique	The single $\nu(C-S)$ bands appeared in the region of 959 – 1003 cm^{-1} and $\nu(C-H)$ bands in the region of 2853-2931 cm^{-1}	-
Unique	The crystal structure of tris(N,N-methylbenzyl)dithiocarbamate)(1,10-phenanthroline) gadolinium(III) adopts a triclinic system (space group $P\bar{1}$) with a distorted dodecahedron geometry with $a = 11$	-
Unique	04(6) Å , $b = 12$	-
Unique	65(7) Å , $c = 17$	-
Unique	13(10) Å , $a = 73$	-
Unique	86(8) Å , $b = 74$	-
Unique	54(8) Å , $c = 72$	-
Unique	34(8) Å and $Z =$	-
Unique	Three dithiocarbamates and one phenanthroline ligands were coordinated to the central Gd atom in bidentate manner	-

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Unique Gadolinium; dithiocarbamate; crystal structure
Gadolinium(III) Complexes with Dialkyldithiocarbamates and 1,10-Phenanthroline (Kompleks Gadolinium(III) dengan Dialkilditiokarbamat dan 1, 10 Fenantrolina) Indah Raya, Ibrahim Baba, Bohari Mohd Yamin & Djulia Onggo School of Chemical Sciences & Food Technology Faculty of Science and

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Gadolinium(III) Complexes with Dialkyldithiocarbamates and 1,10-Phenanthroline (Kompleks Gadolinium(III) dengan Dialkilditiokarbamat dan 1, 10 Fenantrolina) Indah Raya, Ibrahim Baba, Bohari Mohd Yamin & Djulia Onggo School of Chemical Sciences & Food Technology Faculty of Science and Technology, Universiti Kebangsaan Malaysia 43600 Bangi, Selangor, D.E. Malaysia ABSTRACT A new series of gadolinium complexes with mixed ligands, dialkyl dithiocarbamate and 1,10-Phenanthroline were successfully synthesized using "in situ" methods. Microelemental analysis data of complexes are in agreement with the general formula $Gd[S_2CNR'R']_3Phen$ ($R' = ethyl, methyl; R'' = butyl, heptyl, isopropyl, isobutyl, benzyl$ and $cyclohexyl; Phen = 1,10-phenanthroline$). These complexes have been characterized using elemental analysis, infrared, thermogravimetric analysis, conductivity and magnetic measurements. Infrared spectra of complexes showed the thioureide $\nu(C-N)$ bands were in the region of $1450 - 1490\text{ cm}^{-1}$. The single $\nu(C-S)$ bands appeared in the region of $959 - 1003\text{ cm}^{-1}$ and $\nu(C-H)$ bands in the region of $2853-2931\text{ cm}^{-1}$. The crystal structure of tris(N,N-methylbenzyl dithiocarbamate)(1,10-phenanthroline) gadolinium(III) adopts a triclinic system (space group $P\bar{1}$) with a distorted dodecahedron geometry with $a = 11.04(6)\text{ \AA}$, $b = 12.65(7)\text{ \AA}$, $c = 17.13(10)\text{ \AA}$, $\alpha = 73.86(8)^\circ$, $\beta = 74.54(8)^\circ$, $\gamma = 72.34(8)^\circ$ and $Z = 2$. Three dithiocarbamates and one phenanthroline ligands were coordinated to the central Gd atom in bidentate manner. Keywords: Gadolinium; dithiocarbamate; crystal structure

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