

# 1,2-Hexanediol, dinitrate

<b>Other names:</b>	1-nitrooxyhexan-2-yl nitrate
<b>Inchi:</b>	InChI=1S/C6H12N2O6/c1-2-3-4-6(14-8(11)12)5-13-7(9)10/h6H,2-5H2,1H3
<b>InchiKey:</b>	YUWYAYLMKPCSHB-UHFFFAOYSA-N
<b>Formula:</b>	C6H12N2O6
<b>SMILES:</b>	CCCCC(CO[N+](=O)[O-])O[N+](=O)[O-]
<b>Mol. weight [g/mol]:</b>	208.17

## Physical Properties

Property code	Value	Unit	Source
gf	-141.70	kJ/mol	Joback Method
hf	-458.41	kJ/mol	Joback Method
hfus	32.87	kJ/mol	Joback Method
hvap	66.56	kJ/mol	Joback Method
log10ws	-3.10		Aqueous Solubility Prediction Method
logp	0.962		Crippen Method
mvol	141.980	ml/mol	McGowan Method
pc	3100.18	kPa	Joback Method
rinpol	1261.00		NIST Webbook
tb	684.76	K	Joback Method
tc	911.10	K	Joback Method
tf	474.06	K	Joback Method
vc	0.566	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	388.10	J/molxK	684.76	Joback Method
cpg	399.35	J/molxK	722.48	Joback Method
cpg	409.85	J/molxK	760.21	Joback Method
cpg	419.60	J/molxK	797.93	Joback Method
cpg	428.59	J/molxK	835.65	Joback Method
cpg	436.82	J/molxK	873.37	Joback Method
cpg	444.29	J/molxK	911.10	Joback Method

# Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=R496645&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=R496645&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>Aqueous Solubility Prediction Method:</b>	<a href="http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa">http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDa</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

# Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpola:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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