

# Terephthalic acid, hexyl 4-nitro-3-methylbenzyl ester

<b>Inchi:</b>	InChI=1S/C22H25NO6/c1-3-4-5-6-13-28-21(24)18-8-10-19(11-9-18)22(25)29-15-17-7-12
<b>InchiKey:</b>	AAWPCUKEQQOBMC-UHFFFAOYSA-N
<b>Formula:</b>	C22H25NO6
<b>SMILES:</b>	CCCCCOC(=O)c1ccc(C(=O)OCc2ccc([N+](=O)[O-])c(C)c2)cc1
<b>Mol. weight [g/mol]:</b>	399.44

## Physical Properties

Property code	Value	Unit	Source
gf	-102.00	kJ/mol	Joback Method
hf	-559.12	kJ/mol	Joback Method
hfus	56.59	kJ/mol	Joback Method
hvap	106.01	kJ/mol	Joback Method
log10ws	-7.29		Crippen Method
logp	4.997		Crippen Method
mcvol	305.620	ml/mol	McGowan Method
pc	1469.10	kPa	Joback Method
rinpol	2887.00		NIST Webbook
rinpol	2887.00		NIST Webbook
tb	1075.48	K	Joback Method
tc	1322.27	K	Joback Method
tf	716.03	K	Joback Method
vc	1.181	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	991.18	J/mol×K	1075.48	Joback Method
cpg	1000.77	J/mol×K	1116.61	Joback Method
cpg	1008.81	J/mol×K	1157.74	Joback Method
cpg	1015.37	J/mol×K	1198.87	Joback Method
cpg	1020.49	J/mol×K	1240.00	Joback Method
cpg	1024.22	J/mol×K	1281.14	Joback Method
cpg	1026.61	J/mol×K	1322.27	Joback Method

# Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U416103&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U416103&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.com/doc/models/crippen_log10ws</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>rinpolar:</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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