

# Hexan-2-yl 3,5-dinitrobenzoate

<b>Inchi:</b>	InChI=1S/C13H16N2O6/c1-3-4-5-9(2)21-13(16)10-6-11(14(17)18)8-12(7-10)15(19)20/h6
<b>InchiKey:</b>	ZQARXIOVXXLMCF-UHFFFAOYSA-N
<b>Formula:</b>	C13H16N2O6
<b>SMILES:</b>	CCCCC(C)OC(=O)c1cc([N+](=O)[O-])cc([N+](=O)[O-])c1
<b>Mol. weight [g/mol]:</b>	296.28

## Physical Properties

Property code	Value	Unit	Source
gf	-13.53	kJ/mol	Joback Method
hf	-369.66	kJ/mol	Joback Method
hfus	44.67	kJ/mol	Joback Method
hvap	90.08	kJ/mol	Joback Method
log10ws	-5.22		Crippen Method
logp	3.239		Crippen Method
mvol	212.550	ml/mol	McGowan Method
pc	2295.91	kPa	Joback Method
rinpol	2140.00		NIST Webbook
tb	913.01	K	Joback Method
tc	1159.53	K	Joback Method
tf	632.11	K	Joback Method
vc	0.838	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	644.58	J/mol×K	913.01	Joback Method
cpg	655.30	J/mol×K	954.10	Joback Method
cpg	664.87	J/mol×K	995.18	Joback Method
cpg	673.34	J/mol×K	1036.27	Joback Method
cpg	680.72	J/mol×K	1077.36	Joback Method
cpg	687.08	J/mol×K	1118.45	Joback Method
cpg	692.45	J/mol×K	1159.53	Joback Method

# Sources

<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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<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=U373874&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373874&amp;Units=SI</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>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</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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