

# 3,7-Dimethyloct-6-enyl 3,5-dinitrobenzoate

<b>Inchi:</b>	InChI=1S/C17H22N2O6/c1-12(2)5-4-6-13(3)7-8-25-17(20)14-9-15(18(21)22)11-16(10-14
<b>InchiKey:</b>	HEVIMRBTPATVSL-UHFFFAOYSA-N
<b>Formula:</b>	C17H22N2O6
<b>SMILES:</b>	CC(C)=CCCC(C)CCOC(=O)c1cc([N+](=O)[O-])cc([N+](=O)[O-])c1
<b>Mol. weight [g/mol]:</b>	350.37

## Physical Properties

Property code	Value	Unit	Source
gf	91.82	kJ/mol	Joback Method
hf	-344.79	kJ/mol	Joback Method
hfus	53.93	kJ/mol	Joback Method
hvap	99.02	kJ/mol	Joback Method
log10ws	-6.39		Crippen Method
logp	4.432		Crippen Method
mcvol	264.610	ml/mol	McGowan Method
pc	1716.03	kPa	Joback Method
rinpol	2580.00		NIST Webbook
rinpol	2580.00		NIST Webbook
tb	1008.57	K	Joback Method
tc	1254.70	K	Joback Method
tf	658.15	K	Joback Method
vc	1.042	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	843.97	J/mol×K	1008.57	Joback Method
cpg	855.45	J/mol×K	1049.59	Joback Method
cpg	865.87	J/mol×K	1090.61	Joback Method
cpg	875.33	J/mol×K	1131.64	Joback Method
cpg	883.89	J/mol×K	1172.66	Joback Method
cpg	891.64	J/mol×K	1213.68	Joback Method
cpg	898.65	J/mol×K	1254.70	Joback Method

# Sources

<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>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=U373862&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373862&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>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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