

# 1,6-Di-(2,4-dinitro-phenyl)-hexane

<b>Inchi:</b>	InChI=1S/C18H18N4O8/c23-19(24)15-9-7-13(17(11-15)21(27)28)5-3-1-2-4-6-14-8-10-16
<b>InchiKey:</b>	PQJHKEMRVXUDLF-UHFFFAOYSA-N
<b>Formula:</b>	C18H18N4O8
<b>SMILES:</b>	O=[N+]([O-])c1ccc(CCCCCc2ccc([N+](=O)[O-])cc2[N+](=O)[O-])c([N+](=O)[O-])c1
<b>Mol. weight [g/mol]:</b>	418.36
<b>CAS:</b>	6279-98-7

## Physical Properties

Property code	Value	Unit	Source
gf	429.18	kJ/mol	Joback Method
hf	-30.71	kJ/mol	Joback Method
hfus	74.35	kJ/mol	Joback Method
hvap	129.23	kJ/mol	Joback Method
log10ws	-8.17		Crippen Method
logp	4.665		Crippen Method
mcvol	286.640	ml/mol	McGowan Method
pc	1896.95	kPa	Joback Method
tb	1291.88	K	Joback Method
tc	1588.46	K	Joback Method
tf	969.98	K	Joback Method
vc	1.155	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	943.18	J/molxK	1291.88	Joback Method
cpg	949.64	J/molxK	1341.31	Joback Method
cpg	955.50	J/molxK	1390.74	Joback Method
cpg	960.92	J/molxK	1440.17	Joback Method
cpg	966.08	J/molxK	1489.60	Joback Method
cpg	971.14	J/molxK	1539.03	Joback Method
cpg	976.28	J/molxK	1588.46	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=C6279987&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C6279987&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.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.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>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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