

# 1,1'-Oxy-di-2-propanol di-p-nitro benzoate

<b>Inchi:</b>	InChI=1S/C20H20N2O9/c1-13(30-19(23)15-3-7-17(8-4-15)21(25)26)11-29-12-14(2)31-20
<b>InchiKey:</b>	ZWENNPIYTJYTCZ-UHFFFAOYSA-N
<b>Formula:</b>	C20H20N2O9
<b>SMILES:</b>	CC(COCC(C)OC(=O)c1ccc([N+](=O)[O-])cc1)OC(=O)c1ccc([N+](=O)[O-])cc1
<b>Mol. weight [g/mol]:</b>	432.38
<b>CAS:</b>	95429-50-8

## Physical Properties

Property code	Value	Unit	Source
gf	-183.54	kJ/mol	Joback Method
hf	-659.91	kJ/mol	Joback Method
hfus	57.30	kJ/mol	Joback Method
hvap	119.12	kJ/mol	Joback Method
log10ws	-5.89		Crippen Method
logp	3.310		Crippen Method
mcvol	300.730	ml/mol	McGowan Method
pc	1749.21	kPa	Joback Method
tb	1198.12	K	Joback Method
tc	1470.83	K	Joback Method
tf	816.81	K	Joback Method
vc	1.157	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	969.05	J/molxK	1198.12	Joback Method
cpg	971.35	J/molxK	1243.57	Joback Method
cpg	971.70	J/molxK	1289.02	Joback Method
cpg	970.15	J/molxK	1334.47	Joback Method
cpg	966.75	J/molxK	1379.93	Joback Method
cpg	961.55	J/molxK	1425.38	Joback Method
cpg	954.58	J/molxK	1470.83	Joback Method

# Sources

<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=C95429508&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C95429508&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</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>

# 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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