

# 3-Phenoxybenzyl 3,5-dinitrobenzoate

<b>Inchi:</b>	InChI=1S/C20H14N2O7/c23-20(15-10-16(21(24)25)12-17(11-15)22(26)27)28-13-14-5-4-
<b>InchiKey:</b>	BUHSFUZRFXWOLT-UHFFFAOYSA-N
<b>Formula:</b>	C20H14N2O7
<b>SMILES:</b>	O=C(OCc1cccc(Oc2ccccc2)c1)c1cc([N+](=O)[O-])cc([N+](=O)[O-])c1
<b>Mol. weight [g/mol]:</b>	394.33

## Physical Properties

Property code	Value	Unit	Source
gf	158.04	kJ/mol	Joback Method
hf	-179.49	kJ/mol	Joback Method
hfus	55.21	kJ/mol	Joback Method
hvap	113.68	kJ/mol	Joback Method
log10ws	-6.76		Crippen Method
logp	4.652		Crippen Method
mvol	269.530	ml/mol	McGowan Method
pc	2189.73	kPa	Joback Method
rinpol	3189.00		NIST Webbook
rinpol	3189.00		NIST Webbook
tb	1154.37	K	Joback Method
tc	1438.81	K	Joback Method
tf	813.59	K	Joback Method
vc	1.038	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	831.81	J/mol×K	1154.37	Joback Method
cpg	836.52	J/mol×K	1201.78	Joback Method
cpg	839.73	J/mol×K	1249.18	Joback Method
cpg	841.53	J/mol×K	1296.59	Joback Method
cpg	842.03	J/mol×K	1344.00	Joback Method
cpg	841.32	J/mol×K	1391.40	Joback Method
cpg	839.48	J/mol×K	1438.81	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=U373879&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U373879&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.cheméo.com/doc/models/crippen_log10ws">https://www.cheméo.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>h vap:</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>r in pol:</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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