

# N,N-Bis(3-phenoxy-2-hydroxypropyl)butyl amine

<b>Inchi:</b>	InChI=1S/C22H31NO4/c1-2-3-14-23(15-19(24)17-26-21-10-6-4-7-11-21)16-20(25)18-27
<b>InchiKey:</b>	ZDRJSLHBNGHXNK-UHFFFAOYSA-N
<b>Formula:</b>	C22H31NO4
<b>SMILES:</b>	CCCCN(CC(O)COc1ccccc1)CC(O)COc1ccccc1
<b>Mol. weight [g/mol]:</b>	373.49
<b>CAS:</b>	23257-62-7

## Physical Properties

Property code	Value	Unit	Source
gf	-18.56	kJ/mol	Joback Method
hf	-536.28	kJ/mol	Joback Method
hfus	47.34	kJ/mol	Joback Method
hvap	108.56	kJ/mol	Joback Method
log10ws	-4.03		Crippen Method
logp	2.968		Crippen Method
mcvol	306.780	ml/mol	McGowan Method
pc	1594.89	kPa	Joback Method
tb	996.88	K	Joback Method
tc	1220.51	K	Joback Method
tf	559.11	K	Joback Method
vc	1.131	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1085.14	J/molxK	1183.24	Joback Method
cpg	1029.57	J/molxK	996.88	Joback Method
cpg	1042.88	J/molxK	1034.15	Joback Method
cpg	1055.02	J/molxK	1071.42	Joback Method
cpg	1066.06	J/molxK	1108.70	Joback Method
cpg	1076.07	J/molxK	1145.97	Joback Method
cpg	1093.34	J/molxK	1220.51	Joback Method
hsubt	114.30	kJ/mol	387.00	NIST Webbook

# 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=C23257627&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C23257627&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>

# 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>hsubt:</b>	Enthalpy of sublimation at a given temperature
<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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