

# 2-(hydroxymethyl)-6-(phenoxy)oxane-3,4,5-triol

<b>Inchi:</b>	InChI=1S/C12H16O6/c13-6-8-9(14)10(15)11(16)12(18-8)17-7-4-2-1-3-5-7/h1-5,8-16H,6H
<b>InchiKey:</b>	NEZJDVYDSZTRFS-UHFFFAOYSA-N
<b>Formula:</b>	C12H16O6
<b>SMILES:</b>	OCC1OC(Oc2ccccc2)C(O)C(O)C1O
<b>Mol. weight [g/mol]:</b>	256.25

## Physical Properties

Property code	Value	Unit	Source
gf	-582.22	kJ/mol	Joback Method
hf	-954.66	kJ/mol	Joback Method
hfus	42.51	kJ/mol	Joback Method
hvap	117.41	kJ/mol	Joback Method
log10ws	-1.46		Aqueous Solubility Prediction Method
logp	-1.135		Crippen Method
mcvol	180.540	ml/mol	McGowan Method
pc	3791.65	kPa	Joback Method
tb	919.60	K	Joback Method
tc	1126.66	K	Joback Method
tf	438.65	K	Aqueous Solubility Prediction Method
vc	0.643	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	624.89	J/molxK	919.60	Joback Method
cpg	633.91	J/molxK	954.11	Joback Method
cpg	641.90	J/molxK	988.62	Joback Method
cpg	648.87	J/molxK	1023.13	Joback Method
cpg	654.83	J/molxK	1057.64	Joback Method
cpg	659.78	J/molxK	1092.15	Joback Method
cpg	663.73	J/molxK	1126.66	Joback Method
dvisc	0.0001127	Paxs	533.92	Joback Method

dvisc	0.0000233	Paxs	598.20	Joback Method
dvisc	0.0000065	Paxs	662.48	Joback Method
dvisc	0.0000023	Paxs	726.76	Joback Method
dvisc	0.0000010	Paxs	791.04	Joback Method
dvisc	0.0000005	Paxs	855.32	Joback Method
dvisc	0.0000002	Paxs	919.60	Joback Method

## Sources

**Aqueous Solubility Prediction Method:** <http://onschallenge.wikispaces.com/file/view/AqueousDataset002.xlsx/351826032/AqueousDataset002.xlsx>

**McGowan Method:** <http://link.springer.com/article/10.1007/BF02311772>

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<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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