

# Benzene, 1,1'-(oxybis(2,1-ethanediyloxy))bis-

<b>Other names:</b>	Bis(2-phenoxyethyl)ether
<b>Inchi:</b>	InChI=1S/C16H18O3/c1-3-7-15(8-4-1)18-13-11-17-12-14-19-16-9-5-2-6-10-16/h1-10H,1
<b>InchiKey:</b>	PICKZMGDVSSGSC-UHFFFAOYSA-N
<b>Formula:</b>	C16H18O3
<b>SMILES:</b>	<chem>c1ccc(OCCOCCOc2ccccc2)cc1</chem>
<b>Mol. weight [g/mol]:</b>	258.31
<b>CAS:</b>	622-87-7

## Physical Properties

Property code	Value	Unit	Source
gf	-6.34	kJ/mol	Joback Method
hf	-297.17	kJ/mol	Joback Method
hfus	28.84	kJ/mol	Joback Method
hvap	62.99	kJ/mol	Joback Method
log10ws	-3.28		Crippen Method
logp	3.161		Crippen Method
mcvol	206.390	ml/mol	McGowan Method
pc	2177.49	kPa	Joback Method
tb	686.10	K	Joback Method
tc	907.13	K	Joback Method
tf	389.61	K	Joback Method
vc	0.769	m <sup>3</sup> /kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	554.27	J/molxK	686.10	Joback Method
cpg	627.95	J/molxK	870.29	Joback Method
cpg	615.49	J/molxK	833.45	Joback Method
cpg	601.91	J/molxK	796.62	Joback Method
cpg	587.19	J/molxK	759.78	Joback Method
cpg	571.32	J/molxK	722.94	Joback Method
cpg	639.32	J/molxK	907.13	Joback Method
dvisc	0.0000735	Paxs	686.10	Joback Method

dvisc	0.0000948	Paxs	636.68	Joback Method
dvisc	0.0001276	Paxs	587.27	Joback Method
dvisc	0.0001815	Paxs	537.86	Joback Method
dvisc	0.0002771	Paxs	488.44	Joback Method
dvisc	0.0004654	Paxs	439.03	Joback Method
dvisc	0.0008916	Paxs	389.61	Joback Method

## Sources

<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</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>
<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=C622877&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C622877&amp;Units=SI</a>

## 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>mccvol:</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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