

# 2-(2-Cyclohexylphenoxy) ethyl-2-phenoxyethyl ether

Inchi:	InChI=1S/C22H28O3/c1-3-9-19(10-4-1)21-13-7-8-14-22(21)25-18-16-23-15-17-24-20-11
InchiKey:	QXIOLKXCRTXADY-UHFFFAOYSA-N
Formula:	C22H28O3
SMILES:	c1ccc(OCCOCCOc2ccccc2C2CCCCC2)cc1
Mol. weight [g/mol]:	340.46
CAS:	116373-69-4

## Physical Properties

Property code	Value	Unit	Source
gf	59.00	kJ/mol	Joback Method
hf	-378.16	kJ/mol	Joback Method
hfus	35.83	kJ/mol	Joback Method
hvap	77.44	kJ/mol	Joback Method
log10ws	-5.62		Crippen Method
logp	5.209		Crippen Method
mcvol	280.070	ml/mol	McGowan Method
pc	1563.52	kPa	Joback Method
tb	847.91	K	Joback Method
tc	1079.78	K	Joback Method
tf	477.13	K	Joback Method
vc	1.038	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	889.64	J/molxK	847.91	Joback Method
cpg	967.96	J/molxK	1041.13	Joback Method
cpg	955.66	J/molxK	1002.49	Joback Method
cpg	941.72	J/molxK	963.84	Joback Method
cpg	926.10	J/molxK	925.20	Joback Method
cpg	908.75	J/molxK	886.55	Joback Method
cpg	978.65	J/molxK	1079.78	Joback Method
dvisc	0.0000357	Paxs	847.91	Joback Method
dvisc	0.0000467	Paxs	786.11	Joback Method

dvisc	0.0000638	Paxs	724.32	Joback Method
dvisc	0.0000926	Paxs	662.52	Joback Method
dvisc	0.0001450	Paxs	600.72	Joback Method
dvisc	0.0002516	Paxs	538.93	Joback Method
dvisc	0.0005036	Paxs	477.13	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=C116373694&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C116373694&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</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>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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