

Di-[2-(2-phenylphenoxy) ethyl] ether

Inchi:	InChI=1S/C28H26O3/c1-3-11-23(12-4-1)25-15-7-9-17-27(25)30-21-19-29-20-22-31-28-1
InchiKey:	YGOODJAUVLAERZ-UHFFFAOYSA-N
Formula:	C28H26O3
SMILES:	<chem>c1ccc(-c2ccccc2OCCOCCOc2ccccc2-c2ccccc2)cc1</chem>
Mol. weight [g/mol]:	410.50
CAS:	116435-16-6

Physical Properties

Property code	Value	Unit	Source
gf	300.26	kJ/mol	Joback Method
hf	-94.73	kJ/mol	Joback Method
hfus	47.23	kJ/mol	Joback Method
hvap	95.58	kJ/mol	Joback Method
log10ws	-8.49		Crippen Method
logp	6.495		Crippen Method
mcvol	327.950	ml/mol	McGowan Method
pc	1410.13	kPa	Joback Method
tb	1023.98	K	Joback Method
tc	1277.34	K	Joback Method
tf	602.73	K	Joback Method
vc	1.226	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1047.40	J/molxK	1023.98	Joback Method
cpg	1060.43	J/molxK	1066.21	Joback Method
cpg	1071.72	J/molxK	1108.43	Joback Method
cpg	1081.38	J/molxK	1150.66	Joback Method
cpg	1089.49	J/molxK	1192.88	Joback Method
cpg	1096.16	J/molxK	1235.11	Joback Method
cpg	1101.47	J/molxK	1277.34	Joback Method
dvisc	0.0001578	Paxs	602.73	Joback Method
dvisc	0.0000885	Paxs	672.94	Joback Method

dvisc	0.0000553	Paxs	743.15	Joback Method
dvisc	0.0000375	Paxs	813.36	Joback Method
dvisc	0.0000271	Paxs	883.56	Joback Method
dvisc	0.0000205	Paxs	953.77	Joback Method
dvisc	0.0000161	Paxs	1023.98	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C116435166&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

Legend

cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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