

2-[2-([1,1'-Biphenyl]-2-yloxy)ethoxy]-1,1'-biphenyl

Inchi:	InChI=1S/C26H22O2/c1-3-11-21(12-4-1)23-15-7-9-17-25(23)27-19-20-28-26-18-10-8-16
InchiKey:	RUTYZGCHBCCSKD-UHFFFAOYSA-N
Formula:	C26H22O2
SMILES:	<chem>c1ccc(-c2ccccc2OCCOc2ccccc2-c2ccccc2)cc1</chem>
Mol. weight [g/mol]:	366.45
CAS:	607-07-8

Physical Properties

Property code	Value	Unit	Source
gf	388.42	kJ/mol	Joback Method
hf	78.77	kJ/mol	Joback Method
hfus	40.86	kJ/mol	Joback Method
hvap	88.72	kJ/mol	Joback Method
log10ws	-8.57		Crippen Method
logp	6.478		Crippen Method
mcvol	293.900	ml/mol	McGowan Method
pc	1660.55	kPa	Joback Method
tb	955.80	K	Joback Method
tc	1217.22	K	Joback Method
tf	557.96	K	Joback Method
vc	1.095	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	902.65	J/molxK	955.80	Joback Method
cpg	917.31	J/molxK	999.37	Joback Method
cpg	930.32	J/molxK	1042.94	Joback Method
cpg	941.78	J/molxK	1086.51	Joback Method
cpg	951.83	J/molxK	1130.08	Joback Method
cpg	960.57	J/molxK	1173.65	Joback Method
cpg	968.13	J/molxK	1217.22	Joback Method
dvisc	0.0002762	Paxs	557.96	Joback Method
dvisc	0.0001550	Paxs	624.27	Joback Method

dvisc	0.0000972	Paxs	690.57	Joback Method
dvisc	0.0000661	Paxs	756.88	Joback Method
dvisc	0.0000479	Paxs	823.19	Joback Method
dvisc	0.0000364	Paxs	889.49	Joback Method
dvisc	0.0000287	Paxs	955.80	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C607078&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
mcvol:	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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