

1,3-Diphenoxypropane

Other names:	Benzene, 1,1'-[1,3-propanediylbis(oxy)]bis-
Inchi:	InChI=1S/C15H16O2/c1-3-8-14(9-4-1)16-12-7-13-17-15-10-5-2-6-11-15/h1-6,8-11H,7,12
InchiKey:	HZIVULLSUOJNPX-UHFFFAOYSA-N
Formula:	C15H16O2
SMILES:	<chem>c1ccc(OCCCOc2ccccc2)cc1</chem>
Mol. weight [g/mol]:	228.29
CAS:	726-44-3

Physical Properties

Property code	Value	Unit	Source
gf	90.24	kJ/mol	Joback Method
hf	-144.31	kJ/mol	Joback Method
hfus	25.06	kJ/mol	Joback Method
hvap	58.36	kJ/mol	Joback Method
ie	8.46 ± 0.05	eV	NIST Webbook
log10ws	-3.78		Crippen Method
logp	3.535		Crippen Method
mcvol	186.430	ml/mol	McGowan Method
pc	2426.65	kPa	Joback Method
tb	612.20	K	NIST Webbook
tc	868.87	K	Joback Method
tf	356.11	K	Joback Method
vc	0.696	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	474.74	J/molxK	640.80	Joback Method
cpg	549.09	J/molxK	830.86	Joback Method
cpg	536.45	J/molxK	792.85	Joback Method
cpg	522.74	J/molxK	754.84	Joback Method
cpg	507.90	J/molxK	716.82	Joback Method
cpg	491.92	J/molxK	678.81	Joback Method
cpg	560.68	J/molxK	868.87	Joback Method

dvisc	0.0001049	Paxs	640.80	Joback Method
dvisc	0.0001352	Paxs	593.35	Joback Method
dvisc	0.0001821	Paxs	545.90	Joback Method
dvisc	0.0002597	Paxs	498.45	Joback Method
dvisc	0.0003989	Paxs	451.01	Joback Method
dvisc	0.0006779	Paxs	403.56	Joback Method
dvisc	0.0013267	Paxs	356.11	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C726443&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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
ie:	Ionization energy
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

Latest version available from:

<https://www.chemeo.com/cid/66-708-3/1-3-Diphenoxypropane.pdf>

Generated by Cheméo on 2024-04-19 21:38:18.586150934 +0000 UTC m=+15851947.506728250.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.