

Benzene, 1,4-dibutoxy-

Other names:	Benzene, p-dibutoxy- p-Dibutoxybenzene 1,4-Dibutoxybenzene
Inchi:	InChI=1S/C14H22O2/c1-3-5-11-15-13-7-9-14(10-8-13)16-12-6-4-2/h7-10H,3-6,11-12H2,
InchiKey:	ZROGCHDPRZRKTI-UHFFFAOYSA-N
Formula:	C14H22O2
SMILES:	CCCCOc1ccc(OCCCC)cc1
Mol. weight [g/mol]:	222.32
CAS:	104-36-9

Physical Properties

Property code	Value	Unit	Source
gf	-40.22	kJ/mol	Joback Method
hf	-371.67	kJ/mol	Joback Method
hfus	28.04	kJ/mol	Joback Method
hvap	54.52	kJ/mol	Joback Method
log10ws	-4.22		Crippen Method
logp	4.044		Crippen Method
mcvol	196.100	ml/mol	McGowan Method
pc	1923.67	kPa	Joback Method
tb	596.22	K	Joback Method
tc	788.30	K	Joback Method
tf	330.94	K	Joback Method
vc	0.748	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	498.16	J/molxK	596.22	Joback Method
cpg	515.24	J/molxK	628.23	Joback Method
cpg	531.51	J/molxK	660.25	Joback Method
cpg	546.99	J/molxK	692.26	Joback Method
cpg	561.69	J/molxK	724.27	Joback Method
cpg	575.60	J/molxK	756.28	Joback Method

cpg	588.75	J/mol×K	788.30	Joback Method
dvisc	0.0013871	Paxs	330.94	Joback Method
dvisc	0.0007165	Paxs	375.15	Joback Method
dvisc	0.0004254	Paxs	419.37	Joback Method
dvisc	0.0002790	Paxs	463.58	Joback Method
dvisc	0.0001969	Paxs	507.79	Joback Method
dvisc	0.0001470	Paxs	552.01	Joback Method
dvisc	0.0001145	Paxs	596.22	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C104369&Units=SI

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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