

Benzhydryl 2-chloroethyl ether

Other names:	Benzhydryl «beta»-chloroethyl ether Benzene, 1,1'-[(2-chloroethoxy)methylene]bis-
Inchi:	InChI=1S/C15H15ClO/c16-11-12-17-15(13-7-3-1-4-8-13)14-9-5-2-6-10-14/h1-10,15H,11-
InchiKey:	ZNVASENTCOLNJT-UHFFFAOYSA-N
Formula:	C15H15ClO
SMILES:	C1CCOC(c1ccccc1)c1ccccc1
Mol. weight [g/mol]:	246.73
CAS:	32669-06-0

Physical Properties

Property code	Value	Unit	Source
gf	180.87	kJ/mol	Joback Method
hf	-33.11	kJ/mol	Joback Method
hfus	24.55	kJ/mol	Joback Method
hvap	59.94	kJ/mol	Joback Method
log10ws	-4.11		Crippen Method
logp	4.031		Crippen Method
mvol	192.800	ml/mol	McGowan Method
pc	2398.22	kPa	Joback Method
tb	655.37	K	Joback Method
tc	894.73	K	Joback Method
tf	348.80	K	Joback Method
vc	0.721	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	476.93	J/mol×K	655.37	Joback Method
cpg	493.67	J/mol×K	695.26	Joback Method
cpg	509.11	J/mol×K	735.16	Joback Method
cpg	523.32	J/mol×K	775.05	Joback Method
cpg	536.36	J/mol×K	814.95	Joback Method
cpg	548.30	J/mol×K	854.84	Joback Method
cpg	559.19	J/mol×K	894.73	Joback Method

dvisc	0.0019891	Paxs	348.80	Joback Method
dvisc	0.0009146	Paxs	399.89	Joback Method
dvisc	0.0005015	Paxs	450.99	Joback Method
dvisc	0.0003108	Paxs	502.09	Joback Method
dvisc	0.0002104	Paxs	553.18	Joback Method
dvisc	0.0001521	Paxs	604.27	Joback Method
dvisc	0.0001157	Paxs	655.37	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	448.50 ± 1.50	K	0.50	NIST Webbook

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C32669060&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

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
tbrp:	Boiling point at reduced pressure

tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/36-709-5/Benzhydryl-2-chloroethyl-ether.pdf>

Generated by Cheméo on 2024-04-17 21:30:02.671900049 +0000 UTC m=+15678651.592477365.

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