

Propane, 2,2'-oxybis[1-chloro-

Other names:	(2-Chloro-1-methylethyl) ether 2,2'-Dichlorodiisopropyl ether 2,2'-Dichloroisopropyl ether BIS(2-CHLORO-1-METHYLETHYL) ETHER Bis(1-chloro-2-propyl) ether Bis(«beta»-chloroisopropyl) ether DCIP DCIP (Nematocide) Dichlorodiisopropyl ether Dichloroisopropyl ether Ether, bis(2-chloro-1-methylethyl) NCI-C50044 NSC 2849 «beta»,«beta»'-Dichlorodiisopropyl ether
Inchi:	InChI=1S/C6H12Cl2O/c1-5(3-7)9-6(2)4-8/h5-6H,3-4H2,1-2H3
InchiKey:	QCFYJCYNJLBDRT-UHFFFAOYSA-N
Formula:	C6H12Cl2O
SMILES:	CC(CCl)OC(C)CCl
Mol. weight [g/mol]:	171.07
CAS:	108-60-1

Physical Properties

Property code	Value	Unit	Source
af	0.4056		Cheméo Relay (1.0)
gf	-134.10	kJ/mol	Joback Method
hf	-384.71	kJ/mol	Cheméo Relay (1.0)
hfus	13.83	kJ/mol	Joback Method
hvap	48.70	kJ/mol	Cheméo Relay (1.0)
ie	9.95	eV	Cheméo Relay (1.0)
log10ws	-1.52		Cheméo Relay (1.0)
logp	2.258		Crippen Method
mcvol	125.750	ml/mol	McGowan Method
pc	2862.74	kPa	Joback Method
rinpol	1023.00		NIST Webbook
rinpol	171.60		NIST Webbook
rinpol	1029.00		NIST Webbook
rinpol	171.60		NIST Webbook

ripol	1464.00		NIST Webbook
tb	460.20	K	NIST Webbook
tb	460.25	K	NIST Webbook
tc	627.03	K	Cheméo Relay (1.0)
tf	227.96	K	Cheméo Relay (1.0)
vc	0.444	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	234.53	J/mol×K	433.08	Joback Method
cpg	291.56	J/mol×K	621.21	Joback Method
cpg	283.05	J/mol×K	589.85	Joback Method
cpg	274.14	J/mol×K	558.50	Joback Method
cpg	264.85	J/mol×K	527.14	Joback Method
cpg	255.15	J/mol×K	495.79	Joback Method
cpg	245.04	J/mol×K	464.43	Joback Method
dvisc	0.0008015	Pa×s	321.26	Joback Method
dvisc	0.0002569	Pa×s	433.08	Joback Method
dvisc	0.0003495	Pa×s	395.81	Joback Method
dvisc	0.0005069	Pa×s	358.54	Joback Method
dvisc	0.0084256	Pa×s	209.45	Joback Method
dvisc	0.0014291	Pa×s	283.99	Joback Method
dvisc	0.0030348	Pa×s	246.72	Joback Method
hvapt	53.60	kJ/mol	379.00	NIST Webbook

Correlations

Information	Value
Property code	pvap
Equation	$\ln(P_{vp}) = A + B/(T + C)$
Coeff. A	1.19304e+01
Coeff. B	-3.36626e+03
Coeff. C	-5.49930e+01
Temperature range (K), min.	344.12
Temperature range (K), max.	563.57

Sources

KDB:	https://www.thermo.com/research/kdb/hcprop/showprop.php?cmpid=1011
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Cheméo Relay (1.0, beta):	
Cheméo Relay (1.0):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C108601&Units=SI
The Yaws Handbook of Vapor Pressure:	https://www.sciencedirect.com/book/9780128029992/the-yaws-handbook-of-vapor-pressure
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

af:	Acentric Factor
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
hvapt:	Enthalpy of vaporization at a given temperature
ie:	Ionization energy
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
pvap:	Vapor pressure
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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