

2-chlorobutyl dichloroacetate

Other names:	1-Butanol, 2-chloro, dichloroacetate
Inchi:	InChI=1S/C6H9Cl3O2/c1-2-4(7)3-11-6(10)5(8)9/h4-5H,2-3H2,1H3
InchiKey:	XBIFOCPAOVFNGO-UHFFFAOYSA-N
Formula:	C6H9Cl3O2
SMILES:	CCC(Cl)COC(=O)C(Cl)Cl
Mol. weight [g/mol]:	219.49

Physical Properties

Property code	Value	Unit	Source
gf	-274.95	kJ/mol	Joback Method
hf	-469.75	kJ/mol	Joback Method
hfus	19.63	kJ/mol	Joback Method
hvap	50.48	kJ/mol	Joback Method
log10ws	-2.37		Crippen Method
logp	2.351		Crippen Method
mcvol	139.560	ml/mol	McGowan Method
pc	2944.08	kPa	Joback Method
rinpol	1235.00		NIST Webbook
rinpol	1229.00		NIST Webbook
rinpol	1214.00		NIST Webbook
rinpol	1211.00		NIST Webbook
rinpol	1211.00		NIST Webbook
ripol	1858.00		NIST Webbook
ripol	1885.00		NIST Webbook
ripol	1885.00		NIST Webbook
ripol	1896.00		NIST Webbook
ripol	1898.00		NIST Webbook
tb	524.38	K	Joback Method
tc	728.53	K	Joback Method
tf	289.30	K	Joback Method
vc	0.530	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	272.66	J/molxK	524.38	Joback Method
cpg	281.98	J/molxK	558.41	Joback Method
cpg	290.84	J/molxK	592.43	Joback Method
cpg	299.23	J/molxK	626.46	Joback Method
cpg	307.16	J/molxK	660.48	Joback Method
cpg	314.64	J/molxK	694.51	Joback Method
cpg	321.66	J/molxK	728.53	Joback Method
dvisc	0.0045405	Paxs	289.30	Joback Method
dvisc	0.0021323	Paxs	328.48	Joback Method
dvisc	0.0011764	Paxs	367.66	Joback Method
dvisc	0.0007278	Paxs	406.84	Joback Method
dvisc	0.0004899	Paxs	446.02	Joback Method
dvisc	0.0003515	Paxs	485.20	Joback Method
dvisc	0.0002651	Paxs	524.38	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=R111552&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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
ripol:	Non-polar retention indices
ripol:	Polar retention indices

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

Latest version available from:

<https://www.cheméo.com/cid/37-664-4/2-chlorobutyl-dichloroacetate.pdf>

Generated by Cheméo on 2024-04-30 21:06:42.213116799 +0000 UTC m=+16800451.133694114.

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