

Propyl 4-chlorobutanoate

Other names:	Propyl 4-chlorobutanoate n-Propyl-4-chlorobutyrate
Inchi:	InChI=1S/C7H13ClO2/c1-2-6-10-7(9)4-3-5-8/h2-6H2,1H3
InchiKey:	RGFHUYWGQUDWDL-UHFFFAOYSA-N
Formula:	C7H13ClO2
SMILES:	CCCOC(=O)CCCCl
Mol. weight [g/mol]:	164.63

Physical Properties

Property code	Value	Unit	Source
af	0.5397		Cheméo Relay (1.0)
chl	-4044.70 ± 8.40	kJ/mol	NIST Webbook
chl	-4037.00	kJ/mol	NIST Webbook
hf	-538.10 ± 9.60	kJ/mol	NIST Webbook
hfl	-591.60 ± 8.40	kJ/mol	NIST Webbook
hfus	20.87	kJ/mol	Joback Method
hvap	53.60 ± 4.20	kJ/mol	NIST Webbook
ie	10.15	eV	Cheméo Relay (1.0)
log10ws	-1.82		Cheméo Relay (1.0)
logp	1.959		Crippen Method
mcvol	129.170	ml/mol	McGowan Method
pc	2826.33	kPa	Joback Method
rinpol	1117.00		NIST Webbook
rinpol	1110.00		NIST Webbook
rinpol	1100.00		NIST Webbook
rinpol	1102.00		NIST Webbook
rinpol	1117.00		NIST Webbook
tb	463.41	K	Cheméo Relay (1.0)
tc	646.63	K	Cheméo Relay (1.0)
tf	207.26	K	Cheméo Relay (1.0)
vc	0.480	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	265.22	J/mol×K	473.28	Joback Method
cpg	276.01	J/mol×K	503.72	Joback Method
cpg	286.40	J/mol×K	534.15	Joback Method
cpg	296.38	J/mol×K	564.59	Joback Method
cpg	305.96	J/mol×K	595.03	Joback Method
cpg	315.13	J/mol×K	625.46	Joback Method
cpg	323.90	J/mol×K	655.90	Joback Method
dvisc	0.0030645	Pa×s	270.73	Joback Method
dvisc	0.0016518	Pa×s	304.49	Joback Method
dvisc	0.0010072	Pa×s	338.25	Joback Method
dvisc	0.0006719	Pa×s	372.00	Joback Method
dvisc	0.0004794	Pa×s	405.76	Joback Method
dvisc	0.0003603	Pa×s	439.52	Joback Method
dvisc	0.0002820	Pa×s	473.28	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C3153353&Units=SI>

Joback Method:

https://en.wikipedia.org/wiki/Joback_method

McGowan Method:

<http://link.springer.com/article/10.1007/BF02311772>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Crippen Method:

https://www.chemeo.com/doc/models/crippen_log10ws

Legend

af:	Acentric Factor
chl:	Standard liquid enthalpy of combustion
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase 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
rlnpol:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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