

Acetic acid, trichloro-, 1,1-dimethylethyl ester

Inchi: InChI=1S/C6H9Cl3O2/c1-5(2,3)11-4(10)6(7,8)9/h1-3H3
InchiKey: YROVKSCSEXQTHTJ-UHFFFAOYSA-N
Formula: C6H9Cl3O2
SMILES: CC(C)(C)OC(=O)C(Cl)(Cl)Cl
Mol. weight [g/mol]: 219.49
CAS: 1860-21-5

Physical Properties

Property code	Value	Unit	Source
gf	-264.39	kJ/mol	Joback Method
hf	-476.69	kJ/mol	Joback Method
hfus	11.85	kJ/mol	Joback Method
hvap	48.67	kJ/mol	Joback Method
log10ws	-2.87		Crippen Method
logp	2.698		Crippen Method
mcvol	139.560	ml/mol	McGowan Method
pc	3015.64	kPa	Joback Method
rinpol	1035.00		NIST Webbook
rinpol	1035.00		NIST Webbook
ripol	1315.00		NIST Webbook
ripol	1315.00		NIST Webbook
tb	518.80	K	Joback Method
tc	740.23	K	Joback Method
tf	324.14	K	Joback Method
vc	0.520	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	279.39	J/mol×K	518.80	Joback Method
cpg	289.68	J/mol×K	555.70	Joback Method
cpg	299.15	J/mol×K	592.61	Joback Method
cpg	307.85	J/mol×K	629.51	Joback Method
cpg	315.85	J/mol×K	666.42	Joback Method

cpg	323.18	J/mol×K	703.32	Joback Method
cpg	329.90	J/mol×K	740.23	Joback Method
dvisc	0.0036065	Pa×s	324.14	Joback Method
dvisc	0.0019239	Pa×s	356.58	Joback Method
dvisc	0.0011397	Pa×s	389.03	Joback Method
dvisc	0.0007318	Pa×s	421.47	Joback Method
dvisc	0.0005006	Pa×s	453.91	Joback Method
dvisc	0.0003603	Pa×s	486.36	Joback Method
dvisc	0.0002702	Pa×s	518.80	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C1860215&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
mcvol:	McGowan's characteristic volume
pc:	Critical 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

Latest version available from:

<https://www.chemeo.com/cid/10-496-0/Acetic-acid-trichloro-1-1-dimethylethyl-ester.pdf>

Generated by Cheméo on 2025-12-05 18:49:43.212827333 +0000 UTC m=+4708780.742867998.

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