

4-Heptanone, 3,5-dichloro (RR, SS)

Inchi: InChI=1S/C7H12Cl2O/c1-3-5(8)7(10)6(9)4-2/h5-6H,3-4H2,1-2H3
InchiKey: PAHVFSZSVIQBSNV-UHFFFAOYSA-N
Formula: C7H12Cl2O
SMILES: CCC(Cl)C(=O)C(Cl)CC
Mol. weight [g/mol]: 183.08

Physical Properties

Property code	Value	Unit	Source
gf	-149.60	kJ/mol	Joback Method
hf	-342.43	kJ/mol	Joback Method
hfus	16.83	kJ/mol	Joback Method
hvap	45.92	kJ/mol	Joback Method
log10ws	-2.56		Crippen Method
logp	2.590		Crippen Method
mcvol	135.540	ml/mol	McGowan Method
pc	2814.34	kPa	Joback Method
rinpol	1104.00		NIST Webbook
rinpol	1104.00		NIST Webbook
tb	487.41	K	Joback Method
tc	685.16	K	Joback Method
tf	248.42	K	Joback Method
vc	0.519	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	268.72	J/mol×K	487.41	Joback Method
cpg	279.89	J/mol×K	520.37	Joback Method
cpg	290.49	J/mol×K	553.33	Joback Method
cpg	300.54	J/mol×K	586.29	Joback Method
cpg	310.05	J/mol×K	619.25	Joback Method
cpg	319.06	J/mol×K	652.21	Joback Method
cpg	327.56	J/mol×K	685.16	Joback Method
dvisc	0.0077940	Paxs	248.42	Joback Method

dvisc	0.0031406	Paxs	288.25	Joback Method
dvisc	0.0015781	Paxs	328.08	Joback Method
dvisc	0.0009203	Paxs	367.91	Joback Method
dvisc	0.0005964	Paxs	407.75	Joback Method
dvisc	0.0004175	Paxs	447.58	Joback Method
dvisc	0.0003098	Paxs	487.41	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=R630558&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
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
rinpol:	Non-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/98-655-7/4-Heptanone-3-5-dichloro-RR-SS.pdf>

Generated by Cheméo on 2024-04-25 01:38:58.174738674 +0000 UTC m=+16298387.095315985.

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