

1-Heptanol, 4-chloro, acetate

Inchi: InChI=1S/C9H17ClO2/c1-3-5-9(10)6-4-7-12-8(2)11/h9H,3-7H2,1-2H3
InchiKey: FLYVJHUQADLNFV-UHFFFAOYSA-N
Formula: C9H17ClO2
SMILES: CCCC(Cl)CCOC(C)=O
Mol. weight [g/mol]: 192.68

Physical Properties

Property code	Value	Unit	Source
gf	-223.39	kJ/mol	Joback Method
hf	-494.91	kJ/mol	Joback Method
hfus	22.53	kJ/mol	Joback Method
hvap	48.78	kJ/mol	Joback Method
log10ws	-2.72		Crippen Method
logp	2.737		Crippen Method
mcvol	157.350	ml/mol	McGowan Method
pc	2345.09	kPa	Joback Method
rinpol	1278.00		NIST Webbook
rinpol	1251.00		NIST Webbook
rinpol	1266.00		NIST Webbook
rinpol	1251.00		NIST Webbook
rinpol	1266.00		NIST Webbook
rinpol	1278.00		NIST Webbook
rinpol	1273.00		NIST Webbook
rinpol	1266.00		NIST Webbook
rinpol	1276.00		NIST Webbook
ripol	1717.00		NIST Webbook
ripol	1759.00		NIST Webbook
ripol	1757.00		NIST Webbook
ripol	1753.00		NIST Webbook
ripol	1723.00		NIST Webbook
ripol	1717.00		NIST Webbook
tb	518.60	K	Joback Method
tc	701.32	K	Joback Method
tf	278.27	K	Joback Method
vc	0.607	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	352.38	J/molxK	518.60	Joback Method
cpg	365.50	J/molxK	549.05	Joback Method
cpg	378.08	J/molxK	579.51	Joback Method
cpg	390.13	J/molxK	609.96	Joback Method
cpg	401.64	J/molxK	640.41	Joback Method
cpg	412.64	J/molxK	670.86	Joback Method
cpg	423.11	J/molxK	701.32	Joback Method
dvisc	0.0040831	Paxs	278.27	Joback Method
dvisc	0.0018630	Paxs	318.32	Joback Method
dvisc	0.0010130	Paxs	358.38	Joback Method
dvisc	0.0006226	Paxs	398.44	Joback Method
dvisc	0.0004182	Paxs	438.49	Joback Method
dvisc	0.0003003	Paxs	478.55	Joback Method
dvisc	0.0002269	Paxs	518.60	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=R32745&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
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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