hexanoyl chloride

Inchi: InChI=1S/C6H11ClO/c1-2-3-4-5-6(7)8/h2-5H2,1H3
InchiKey: YWGHUJQYGPDNKT-UHFFFAOYSA-N
Formula: C6H11ClO
SMILES: CCCCCC(=O)Cl
Mol. weight [g/mol]: 134.60
CAS: 142-61-0

Physical Properties

Property code	Value	Unit	Source
gf	-141.21	kJ/mol	Joback Method
hf	-295.49	kJ/mol	Joback Method
hfus	17.09	kJ/mol	Joback Method
hvap	40.08	kJ/mol	Joback Method
log10ws	-2.26		Crippen Method
logp	2.332		Crippen Method
mcvol	109.210	ml/mol	McGowan Method
pc	3199.16	kPa	Joback Method
tb	426.20	K	NIST Webbook
tc	612.92	K	Joback Method
tf	237.23	K	Joback Method
vc	0.426	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	203.17	J/mol×K	427.98	Joback Method
cpg	248.12	J/mol×K	582.10	Joback Method
cpg	239.93	J/mol×K	551.27	Joback Method
cpg	231.35	J/mol×K	520.45	Joback Method
cpg	222.37	J/mol×K	489.63	Joback Method
cpg	212.98	J/mol×K	458.80	Joback Method
cpg	255.93	J/mol×K	612.92	Joback Method
dvisc	0.0003500	Pa×s	427.98	Joback Method
dvisc	0.0004460	Pa×s	396.19	Joback Method

dvisc	0.0005929	Pa×s	364.40	Joback Method
dvisc	0.0008322	Pa×s	332.61	Joback Method
dvisc	0.0012550	Pa×s	300.81	Joback Method
dvisc	0.0020856	Pa×s	269.02	Joback Method
dvisc	0.0039715	Pa×s	237.23	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C142610&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
KDB:	https://www.cheric.org/files/research/kdb/mol/mol1631.mol

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