

ethoxyacetyl chloride

Inchi:	InChI=1S/C4H7ClO2/c1-2-7-3-4(5)6/h2-3H2,1H3
InchiKey:	ZPMWWAIBJJFPPQ-UHFFFAOYSA-N
Formula:	C4H7ClO2
SMILES:	CCOCC(=O)Cl
Mol. weight [g/mol]:	122.55
CAS:	500025-15-0

Physical Properties

Property code	Value	Unit	Source
gf	-263.05	kJ/mol	Joback Method
hf	-386.43	kJ/mol	Joback Method
hfus	13.10	kJ/mol	Joback Method
hvap	38.04	kJ/mol	Joback Method
log10ws	-0.51		Crippen Method
logp	0.788		Crippen Method
mvol	86.900	ml/mol	McGowan Method
pc	3940.66	kPa	Joback Method
tb	397.00 ± 3.00	K	NIST Webbook
tc	592.13	K	Joback Method
tf	236.92	K	Joback Method
vc	0.333	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	151.10	J/mol×K	404.64	Joback Method
cpg	157.93	J/mol×K	435.89	Joback Method
cpg	164.55	J/mol×K	467.14	Joback Method
cpg	170.96	J/mol×K	498.39	Joback Method
cpg	177.14	J/mol×K	529.63	Joback Method
cpg	183.10	J/mol×K	560.88	Joback Method
cpg	188.84	J/mol×K	592.13	Joback Method
dvisc	0.0027868	Paxs	236.92	Joback Method
dvisc	0.0016136	Paxs	264.87	Joback Method

dvisc	0.0010371	Paxs	292.83	Joback Method
dvisc	0.0007199	Paxs	320.78	Joback Method
dvisc	0.0005298	Paxs	348.73	Joback Method
dvisc	0.0004081	Paxs	376.69	Joback Method
dvisc	0.0003259	Paxs	404.64	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C500025150&Units=SI
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

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
mccvol:	McGowan's characteristic volume
pc:	Critical Pressure
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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