

Butanoyl chloride, 4-chloro-

Other names:	«gamma»-Chlorobutyryl chloride 4-Chlorobutyryl chloride 4-Chlorobutyl chloride «gamma»-Chloro-n-butyryl chloride 4-Chlorobutyroyl chloride
Inchi:	InChI=1S/C4H6Cl2O/c5-3-1-2-4(6)7/h1-3H2
InchiKey:	CDIIZULDSLKBKV-UHFFFAOYSA-N
Formula:	C4H6Cl2O
SMILES:	O=C(Cl)CCCCl
Mol. weight [g/mol]:	141.00
CAS:	4635-59-0

Physical Properties

Property code	Value	Unit	Source
gf	-169.98	kJ/mol	Joback Method
hf	-269.95	kJ/mol	Joback Method
hfus	16.11	kJ/mol	Joback Method
hvap	40.01	kJ/mol	Joback Method
log10ws	-1.58		Crippen Method
logp	1.771		Crippen Method
mcvol	93.270	ml/mol	McGowan Method
pc	3843.54	kPa	Joback Method
rinpol	959.70		NIST Webbook
tb	446.70	K	NIST Webbook
tc	615.08	K	Joback Method
tf	244.61	K	Joback Method
vc	0.363	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	152.74	J/molxK	419.65	Joback Method
cpg	159.49	J/molxK	452.22	Joback Method
cpg	165.90	J/molxK	484.79	Joback Method

cpg	172.00	J/molxK	517.37	Joback Method
cpg	177.79	J/molxK	549.94	Joback Method
cpg	183.28	J/molxK	582.51	Joback Method
cpg	188.48	J/molxK	615.08	Joback Method
dvisc	0.0036532	Paxs	244.61	Joback Method
dvisc	0.0020955	Paxs	273.78	Joback Method
dvisc	0.0013378	Paxs	302.96	Joback Method
dvisc	0.0009241	Paxs	332.13	Joback Method
dvisc	0.0006777	Paxs	361.30	Joback Method
dvisc	0.0005205	Paxs	390.48	Joback Method
dvisc	0.0004147	Paxs	419.65	Joback Method

Sources

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=C4635590&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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

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