1-Sec-butoxy-2,4,5-trichlorobenzene

Inchi: InChI=1S/C10H11Cl3O/c1-3-6(2)14-10-5-8(12)7(11)4-9(10)13/h4-6H,3H2,1-2H3
InchiKey: LUERAVPFGMTONP-UHFFFAOYSA-N
Formula: C10H11Cl3O
SMILES: CCC(C)Oc1cc(Cl)c(Cl)cc1Cl
Mol. weight [g/mol]: 253.55
CAS: 116435-15-5

Physical Properties

Property code	Value	Unit	Source
gf	-26.39	kJ/mol	Joback Method
hf	-232.33	kJ/mol	Joback Method
hfus	24.79	kJ/mol	Joback Method
hvap	57.29	kJ/mol	Joback Method
log10ws	-5.01		Crippen Method
logp	4.824		Crippen Method
mcvol	170.590	ml/mol	McGowan Method
pc	2470.27	kPa	Joback Method
tb	604.09	K	Joback Method
tc	829.18	K	Joback Method
tf	363.43	K	Joback Method
vc	0.646	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	359.56	J/mol×K	604.09	Joback Method
cpg	371.44	J/mol×K	641.61	Joback Method
cpg	382.62	J/mol×K	679.12	Joback Method
cpg	393.12	J/mol×K	716.64	Joback Method
cpg	402.95	J/mol×K	754.15	Joback Method
cpg	412.12	J/mol×K	791.67	Joback Method
cpg	420.64	J/mol×K	829.18	Joback Method
dvisc	0.0011917	Pa×s	363.43	Joback Method
dvisc	0.0007273	Pa×s	403.54	Joback Method

dvisc	0.0004853	Pa×s	443.65	Joback Method
dvisc	0.0003463	Pa×s	483.76	Joback Method
dvisc	0.0002603	Pa×s	523.87	Joback Method
dvisc	0.0002037	Pa×s	563.98	Joback Method
dvisc	0.0001647	Pa×s	604.09	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=C116435155&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume