Benzene, (3-chloro-1-methylbutyl)

Inchi: InChI=1S/C11H15Cl/c1-9(8-10(2)12)11-6-4-3-5-7-11/h3-7,9-10H,8H2,1-2H3
InchiKey: CLRBIRTXHRWANQ-UHFFFAOYSA-N
Formula: C11H15Cl
SMILES: CC(Cl)CC(C)c1ccccc1
Mol. weight [g/mol]: 182.69

Physical Properties

Property code	Value	Unit	Source
gf	137.34	kJ/mol	Joback Method
hf	-60.14	kJ/mol	Joback Method
hfus	15.44	kJ/mol	Joback Method
hvap	45.97	kJ/mol	Joback Method
log10ws	-3.76		Crippen Method
logp	3.808		Crippen Method
mcvol	154.330	ml/mol	McGowan Method
pc	2592.49	kPa	Joback Method
rinpol	1286.00		NIST Webbook
tb	514.31	K	Joback Method
tc	731.21	K	Joback Method
tf	240.07	K	Joback Method
vc	0.581	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	330.44	J/mol×K	514.31	Joback Method
cpg	346.53	J/mol×K	550.46	Joback Method
cpg	361.64	J/mol×K	586.61	Joback Method
cpg	375.79	J/mol×K	622.76	Joback Method
cpg	389.04	J/mol×K	658.91	Joback Method
cpg	401.43	J/mol×K	695.06	Joback Method
cpg	413.00	J/mol×K	731.21	Joback Method
dvisc	0.0074933	Pa×s	240.07	Joback Method
dvisc	0.0025354	Pa×s	285.78	Joback Method

dvisc	0.0011567	Pa×s	331.48	Joback Method
dvisc	0.0006382	Pa×s	377.19	Joback Method
dvisc	0.0004005	Pa×s	422.90	Joback Method
dvisc	0.0002752	Pa×s	468.60	Joback Method
dvisc	0.0002021	Pa×s	514.31	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=R132128&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