Benzene, (1-chloro-1,2-dimethylpropyl)

Inchi: InChI=1S/C11H15Cl/c1-9(2)11(3,12)10-7-5-4-6-8-10/h4-9H,1-3H3
InchiKey: HFXFGGPUUWNIOU-UHFFFAOYSA-N
Formula: C11H15Cl
SMILES: CC(C)C(C)(Cl)c1ccccc1
Mol. weight [g/mol]: 182.69

Physical Properties

Property code	Value	Unit	Source
gf	142.62	kJ/mol	Joback Method
hf	-63.61	kJ/mol	Joback Method
hfus	11.55	kJ/mol	Joback Method
hvap	45.06	kJ/mol	Joback Method
log10ws	-3.61		Crippen Method
logp	3.797		Crippen Method
mcvol	154.330	ml/mol	McGowan Method
pc	2621.78	kPa	Joback Method
rinpol	1262.00		NIST Webbook
rinpol	1262.00		NIST Webbook
tb	511.52	K	Joback Method
tc	737.70	K	Joback Method
tf	257.49	K	Joback Method
vc	0.576	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	333.28	J/mol×K	511.52	Joback Method
cpg	406.44	J/mol×K	700.01	Joback Method
cpg	393.96	J/mol×K	662.31	Joback Method
cpg	380.47	J/mol×K	624.61	Joback Method
cpg	365.91	J/mol×K	586.91	Joback Method
cpg	350.21	J/mol×K	549.22	Joback Method
cpg	417.99	J/mol×K	737.70	Joback Method
dvisc	0.0002049	Pa×s	511.52	Joback Method

dvisc	0.0002829	Pa×s	469.18	Joback Method
dvisc	0.0004165	Pa×s	426.84	Joback Method
dvisc	0.0006677	Pa×s	384.50	Joback Method
dvisc	0.0012030	Pa×s	342.17	Joback Method
dvisc	0.0025593	Pa×s	299.83	Joback Method
dvisc	0.0069791	Pa×s	257.49	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=R131749&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