Benzene, (1-chloro-1-methylbutyl)

Inchi: InChI=1S/C11H15Cl/c1-3-9-11(2,12)10-7-5-4-6-8-10/h4-8H,3,9H2,1-2H3
InchiKey: RFYVFWHYQNBYJY-UHFFFAOYSA-N
Formula: C11H15Cl
SMILES: CCCC(C)(Cl)c1ccccc1
Mol. weight [g/mol]: 182.69

Physical Properties

Property code	Value	Unit	Source
gf	145.06	kJ/mol	Joback Method
hf	-58.33	kJ/mol	Joback Method
hfus	15.07	kJ/mol	Joback Method
hvap	45.45	kJ/mol	Joback Method
log10ws	-3.85		Crippen Method
logp	3.941		Crippen Method
mcvol	154.330	ml/mol	McGowan Method
pc	2600.43	kPa	Joback Method
rinpol	1254.00		NIST Webbook
tb	511.96	K	Joback Method
tc	732.97	K	Joback Method
tf	272.49	K	Joback Method
vc	0.582	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	333.04	J/mol×K	511.96	Joback Method
cpg	349.50	J/mol×K	548.80	Joback Method
cpg	364.81	J/mol×K	585.63	Joback Method
cpg	379.03	J/mol×K	622.47	Joback Method
cpg	392.23	J/mol×K	659.30	Joback Method
cpg	404.48	J/mol×K	696.14	Joback Method
cpg	415.84	J/mol×K	732.97	Joback Method
dvisc	0.0046976	Pa×s	272.49	Joback Method
dvisc	0.0020281	Pa×s	312.40	Joback Method

dvisc	0.0010592	Pa×s	352.31	Joback Method
dvisc	0.0006313	Pa×s	392.23	Joback Method
dvisc	0.0004140	Pa×s	432.14	Joback Method
dvisc	0.0002916	Pa×s	472.05	Joback Method
dvisc	0.0002169	Pa×s	511.96	Joback Method

Sources

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

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=R131769&Units=SI

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