

Benzene, 2-(1-chlorobutyl)-1,4-dimethyl

Inchi:	InChI=1S/C12H17Cl/c1-4-5-12(13)11-8-9(2)6-7-10(11)3/h6-8,12H,4-5H2,1-3H3
InchiKey:	ZWZGATUEKAUEQL-UHFFFAOYSA-N
Formula:	C12H17Cl
SMILES:	CCCC(Cl)c1cc(C)ccc1C
Mol. weight [g/mol]:	196.72

Physical Properties

Property code	Value	Unit	Source
gf	128.94	kJ/mol	Joback Method
hf	-98.44	kJ/mol	Joback Method
hfus	20.77	kJ/mol	Joback Method
hvap	49.90	kJ/mol	Joback Method
log10ws	-4.67		Crippen Method
logp	4.383		Crippen Method
mcvol	168.420	ml/mol	McGowan Method
pc	2271.90	kPa	Joback Method
rinsol	1420.00		NIST Webbook
tb	547.59	K	Joback Method
tc	758.50	K	Joback Method
tf	291.38	K	Joback Method
vc	0.642	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	377.01	J/molxK	547.59	Joback Method
cpg	392.77	J/molxK	582.74	Joback Method
cpg	407.67	J/molxK	617.89	Joback Method
cpg	421.74	J/molxK	653.04	Joback Method
cpg	435.02	J/molxK	688.19	Joback Method
cpg	447.52	J/molxK	723.34	Joback Method
cpg	459.29	J/molxK	758.50	Joback Method
dvisc	0.0023617	Paxs	291.38	Joback Method
dvisc	0.0011807	Paxs	334.08	Joback Method

dvisc	0.0006907	Paxs	376.78	Joback Method
dvisc	0.0004507	Paxs	419.49	Joback Method
dvisc	0.0003182	Paxs	462.19	Joback Method
dvisc	0.0002383	Paxs	504.89	Joback Method
dvisc	0.0001867	Paxs	547.59	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R131907&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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

Latest version available from:

<https://www.chemeo.com/cid/55-659-0/Benzene-2-1-chlorobutyl-1-4-dimethyl.pdf>

Generated by Cheméo on 2024-04-27 18:02:55.887469564 +0000 UTC m=+16530224.808046880.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.