Benzene, 1-cyclopropyl-4-methyl-

Inchi: InChI=1S/C10H12/c1-8-2-4-9(5-3-8)10-6-7-10/h2-5,10H,6-7H2,1H3
InchiKey: OHSOXYBIKPSCSK-UHFFFAOYSA-N
Formula: C10H12
SMILES: Cc1ccc(C2CC2)cc1
Mol. weight [g/mol]: 132.20
CAS: 6921-43-3

Physical Properties

Property code	Value	Unit	Source
affp	846.30	kJ/mol	NIST Webbook
basg	813.80	kJ/mol	NIST Webbook
gf	196.85	kJ/mol	Joback Method
hf	48.13	kJ/mol	Joback Method
hfus	13.44	kJ/mol	Joback Method
hvap	40.70	kJ/mol	Joback Method
log10ws	-3.03		Crippen Method
logp	2.872		Crippen Method
mcvol	117.140	ml/mol	McGowan Method
pc	3333.53	kPa	Joback Method
tb	466.60	K	Joback Method
tc	689.90	K	Joback Method
tf	259.34	K	Joback Method
vc	0.445	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	242.54	J/mol×K	466.60	Joback Method
cpg	312.26	J/mol×K	652.68	Joback Method
cpg	300.22	J/mol×K	615.47	Joback Method
cpg	287.30	J/mol×K	578.25	Joback Method
cpg	273.42	J/mol×K	541.03	Joback Method
cpg	258.52	J/mol×K	503.82	Joback Method
cpg	323.47	J/mol×K	689.90	Joback Method

dvisc	0.0003992	Pa×s	466.60	Joback Method
dvisc	0.0004515	Pa×s	432.06	Joback Method
dvisc	0.0005217	Pa×s	397.51	Joback Method
dvisc	0.0006195	Pa×s	362.97	Joback Method
dvisc	0.0007629	Pa×s	328.43	Joback Method
dvisc	0.0009866	Pa×s	293.88	Joback Method
dvisc	0.0013663	Pa×s	259.34	Joback Method

Sources

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=C6921433&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

affp:	Proton affinity
basg:	Gas basicity
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

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