

1-Cyclopropyl-2-methylbenzene

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

CAS:

InChI=1S/C10H12/c1-8-4-2-3-5-10(8)9-6-7-9/h2-5,9H,6-7H2,1H3

RUSPCRNKBONOHU-UHFFFAOYSA-N

C10H12

Cc1ccccc1C1CC1

132.20

27546-46-9

Physical Properties

Property code	Value	Unit	Source
affp	840.40	kJ/mol	NIST Webbook
basg	807.90	kJ/mol	NIST Webbook
chl	-5725.40 ± 0.80	kJ/mol	NIST Webbook
gf	196.85	kJ/mol	Joback Method
hf	48.13	kJ/mol	Joback Method
hfl	75.30 ± 0.80	kJ/mol	NIST Webbook
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:	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=C27546469&Units=SI

Legend

affp:	Proton affinity
basg:	Gas basicity
chl:	Standard liquid enthalpy of combustion
cpg:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfl:	Liquid phase 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

Latest version available from:

<https://www.chemeo.com/cid/36-165-9/1-Cyclopropyl-2-methylbenzene.pdf>

Generated by Cheméo on 2025-12-05 15:36:22.72357063 +0000 UTC m=+4697180.253611294.

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