

Cyclopropyl phenyl ketone

Other names:	Methanone, cyclopropylphenyl- Ketone, cyclopropyl phenyl Benzoylcyclopropane Phenyl cyclopropyl ketone Cyclopropylphenylmethanone
Inchi:	InChI=1S/C10H10O/c11-10(9-6-7-9)8-4-2-1-3-5-8/h1-5,9H,6-7H2
InchiKey:	PJRHFTYXYCVOSJ-UHFFFAOYSA-N
Formula:	C10H10O
SMILES:	O=C(c1cccc1)C1CC1
Mol. weight [g/mol]:	146.19
CAS:	3481-02-5

Physical Properties

Property code	Value	Unit	Source
gf	77.56	kJ/mol	Joback Method
hf	-52.98	kJ/mol	Joback Method
hfus	15.43	kJ/mol	Joback Method
hvap	46.79	kJ/mol	Joback Method
log10ws	-2.62		Crippen Method
logp	2.279		Crippen Method
mcvol	118.710	ml/mol	McGowan Method
pc	3655.35	kPa	Joback Method
rinpol	1270.00		NIST Webbook
tb	515.49	K	Joback Method
tc	747.78	K	Joback Method
tf	296.75	K	Joback Method
vc	0.451	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	261.92	J/mol×K	515.49	Joback Method
cpg	276.80	J/mol×K	554.21	Joback Method
cpg	290.54	J/mol×K	592.92	Joback Method

cpg	303.21	J/molxK	631.64	Joback Method
cpg	314.90	J/molxK	670.35	Joback Method
cpg	325.68	J/molxK	709.07	Joback Method
cpg	335.62	J/molxK	747.78	Joback Method
dvisc	0.0022723	Paxs	296.75	Joback Method
dvisc	0.0015624	Paxs	333.21	Joback Method
dvisc	0.0011567	Paxs	369.66	Joback Method
dvisc	0.0009039	Paxs	406.12	Joback Method
dvisc	0.0007356	Paxs	442.58	Joback Method
dvisc	0.0006177	Paxs	479.03	Joback Method
dvisc	0.0005316	Paxs	515.49	Joback Method

Pressure Dependent Properties

Property code	Value	Unit	Pressure [kPa]	Source
tbrp	395.20	K	2.00	NIST Webbook

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C3481025&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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
tbrp:	Boiling point at reduced pressure
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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