

4-Bromophenyl cyclopropyl ketone

Other names:	(4-Bromophenyl)cyclopropylmethanone Methanone, (4-bromophenyl)cyclopropyl-
Inchi:	InChI=1S/C10H9BrO/c11-9-5-3-8(4-6-9)10(12)7-1-2-7/h3-7H,1-2H2
InchiKey:	QTHHOINSCNBYQO-UHFFFAOYSA-N
Formula:	C10H9BrO
SMILES:	O=C(c1ccc(Br)cc1)C1CC1
Mol. weight [g/mol]:	225.08
CAS:	6952-89-2

Physical Properties

Property code	Value	Unit	Source
gf	82.25	kJ/mol	Joback Method
hf	-38.12	kJ/mol	Joback Method
hfus	20.33	kJ/mol	Joback Method
hvap	53.89	kJ/mol	Joback Method
log10ws	-3.78		Crippen Method
logp	3.042		Crippen Method
mvol	136.210	ml/mol	McGowan Method
pc	3906.25	kPa	Joback Method
rinpol	1653.00		NIST Webbook
tb	586.63	K	Joback Method
tc	834.67	K	Joback Method
tf	369.07	K	Joback Method
vc	0.512	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	298.73	J/molxK	586.63	Joback Method
cpg	311.73	J/molxK	627.97	Joback Method
cpg	323.64	J/molxK	669.31	Joback Method
cpg	334.55	J/molxK	710.65	Joback Method
cpg	344.57	J/molxK	751.99	Joback Method
cpg	353.80	J/molxK	793.33	Joback Method

cpg	362.34	J/mol×K	834.67	Joback Method
dvisc	0.0022041	Paxs	369.07	Joback Method
dvisc	0.0016282	Paxs	405.33	Joback Method
dvisc	0.0012641	Paxs	441.59	Joback Method
dvisc	0.0010199	Paxs	477.85	Joback Method
dvisc	0.0008482	Paxs	514.11	Joback Method
dvisc	0.0007227	Paxs	550.37	Joback Method
dvisc	0.0006281	Paxs	586.63	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=C6952892&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

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

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