Cyclopropylphenylmethane

Other names:	Benzene, (cyclopropylmethyl)-
	benzylcyclopropane
Inchi:	InChI=1S/C10H12/c1-2-4-9(5-3-1)8-10-6-7-10/h1-5,10H,6-8H2
InchiKey:	GUGXBRGATQTAFP-UHFFFAOYSA-N
Formula:	C10H12
SMILES:	c1ccc(CC2CC2)cc1
Mol. weight [g/mol]:	132.20
CAS:	1667-00-1

Physical Properties

Property code	Value	Unit	Source
gf	206.48	kJ/mol	Joback Method
hf	59.60	kJ/mol	Joback Method
hfus	13.83	kJ/mol	Joback Method
hvap	40.04	kJ/mol	Joback Method
log10ws	-2.76		Crippen Method
logp	2.639		Crippen Method
mcvol	117.140	ml/mol	McGowan Method
pc	3392.03	kPa	Joback Method
rinpol	1056.40		NIST Webbook
rinpol	1059.50		NIST Webbook
tb	520.50 ± 1.00	K	NIST Webbook
tc	683.52	K	Joback Method
tf	278.00 ± 2.00	K	NIST Webbook
vc	0.445	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	241.64	J/mol×K	461.62	Joback Method
cpg	313.19	J/mol×K	646.54	Joback Method
cpg	300.92	J/mol×K	609.55	Joback Method
cpg	287.70	J/mol×K	572.57	Joback Method
cpg	273.46	J/mol×K	535.59	Joback Method

cpg	258.13	J/mol×K	498.60	Joback Method
cpg	324.59	J/mol×K	683.52	Joback Method
dvisc	0.0004129	Pa×s	461.62	Joback Method
dvisc	0.0004750	Pa×s	425.82	Joback Method
dvisc	0.0005607	Pa×s	390.02	Joback Method
dvisc	0.0006844	Pa×s	354.22	Joback Method
dvisc	0.0008738	Pa×s	318.42	Joback Method
dvisc	0.0011868	Pa×s	282.62	Joback Method
dvisc	0.0017617	Pa×s	246.82	Joback Method

Sources

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C1667001&Units=SI
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

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