1-(Methylene)-2-phenylcyclopropane

Other names: 2-Phenyl-1-methylenecyclopropane
(2-Methylenecyclopropyl)benzene
1-(Methylene)-2-phenylcyclopropane
Inchi: InChI=1S/C10H10/c1-8-7-10(8)9-5-3-2-4-6-9/h2-6,10H,1,7H2
InchiKey: UZXGMTRQCZEMNP-UHFFFAOYSA-N
Formula: C10H10
SMILES: C=C1CC1c1ccccc1
Mol. weight [g/mol]: 130.19

Physical Properties

Property code	Value	Unit	Source
hf	292.00	kJ/mol	NIST Webbook
hf	297.00	kJ/mol	NIST Webbook
hfus	12.67	kJ/mol	Joback Method
hvap	45.05	kJ/mol	Cheméo Relay (1.0)
ie	8.63	eV	Cheméo Relay (1.0)
log10ws	-3.22		Cheméo Relay (1.0)
logp	2.730		Crippen Method
mcvol	112.840	ml/mol	McGowan Method
tb	454.62	K	Cheméo Relay (1.0)
tf	196.00	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	226.17	J/mol×K	460.78	Joback Method
cpg	300.79	J/mol×K	684.81	Joback Method
cpg	290.54	J/mol×K	647.47	Joback Method
cpg	279.50	J/mol×K	610.13	Joback Method
cpg	267.61	J/mol×K	572.79	Joback Method
cpg	254.80	J/mol×K	535.46	Joback Method
cpg	241.01	J/mol×K	498.12	Joback Method
dvisc	0.0006152	Pa×s	360.64	Joback Method
dvisc	0.0004241	Pa×s	460.78	Joback Method

dvisc	0.0004709	Pa×s	427.40	Joback Method
dvisc	0.0005321	Pa×s	394.02	Joback Method
dvisc	0.0011877	Pa×s	260.50	Joback Method
dvisc	0.0007325	Pa×s	327.26	Joback Method
dvisc	0.0009075	Pa×s	293.88	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C29817092&Units=SI

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
hf: Enthalpy of formation at standard conditions
hfus: Enthalpy of fusion at standard conditions
hvap: Enthalpy of vaporization at standard conditions
ie: Ionization energy
log10ws: Log10 of Water solubility in mol/l
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
tb: Normal Boiling Point Temperature
tf: Normal melting (fusion) point