Benzene, (cyclopropylidenemethyl)-

Other names:	Methane, cyclopropylidenephenyl- «alpha»-Phenylmethylenecyclopropane Benzylidenecyclopropane (Phenylmethylene)cyclopropane
Inchi:	InChI=1S/C10H10/c1-2-4-9(5-3-1)8-10-6-7-10/h1-5,8H,6-7H2
InchiKey:	VXAOEHNEGSMNAU-UHFFFAOYSA-N
Formula:	C10H10
SMILES:	C(=C1CC1)c1ccccc1
Mol. weight [g/mol]:	130.19
CAS:	7555-67-1

Physical Properties

Property code	Value	Unit	Source
gf	259.65	kJ/mol	Joback Method
hf	155.97	kJ/mol	Joback Method
hfus	13.08	kJ/mol	Joback Method
hvap	41.14	kJ/mol	Joback Method
log10ws	-3.03		Crippen Method
logp	2.864		Crippen Method
mcvol	112.840	ml/mol	McGowan Method
pc	3650.93	kPa	Joback Method
tb	472.93	K	Joback Method
tc	703.34	K	Joback Method
tf	261.42	K	Joback Method
vc	0.428	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	225.58	J/mol×K	472.93	Joback Method
cpg	288.21	J/mol×K	664.94	Joback Method
cpg	277.65	J/mol×K	626.54	Joback Method
cpg	266.20	J/mol×K	588.13	Joback Method
cpg	253.76	J/mol×K	549.73	Joback Method

cpg	240.25	J/mol×K	511.33	Joback Method
cpg	297.96	J/mol×K	703.34	Joback Method
dvisc	0.0003560	Pa×s	472.93	Joback Method
dvisc	0.0004154	Pa×s	437.68	Joback Method
dvisc	0.0004980	Pa×s	402.43	Joback Method
dvisc	0.0006182	Pa×s	367.18	Joback Method
dvisc	0.0008035	Pa×s	331.92	Joback Method
dvisc	0.0011114	Pa×s	296.67	Joback Method
dvisc	0.0016779	Pa×s	261.42	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C7555671&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

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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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