

Cycloheptane, butylidene

Inchi:	InChI=1S/C11H20/c1-2-3-8-11-9-6-4-5-7-10-11/h8H,2-7,9-10H2,1H3
InchiKey:	KDJKHVCIONEXQD-UHFFFAOYSA-N
Formula:	C11H20
SMILES:	CCCC=C1CCCCC1
Mol. weight [g/mol]:	152.28

Physical Properties

Property code	Value	Unit	Source
gf	107.26	kJ/mol	Joback Method
hf	-125.84	kJ/mol	Joback Method
hfus	13.23	kJ/mol	Joback Method
hvap	41.78	kJ/mol	Joback Method
log10ws	-4.18		Crippen Method
logp	4.067		Crippen Method
mvol	150.690	ml/mol	McGowan Method
pc	2545.61	kPa	Joback Method
rinpol	1163.00		NIST Webbook
rinpol	1163.00		NIST Webbook
tb	486.21	K	Joback Method
tc	695.70	K	Joback Method
tf	232.19	K	Joback Method
vc	0.560	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	332.28	J/mol×K	486.21	Joback Method
cpg	421.64	J/mol×K	660.78	Joback Method
cpg	405.75	J/mol×K	625.87	Joback Method
cpg	388.89	J/mol×K	590.95	Joback Method
cpg	371.05	J/mol×K	556.04	Joback Method
cpg	352.19	J/mol×K	521.12	Joback Method
cpg	436.62	J/mol×K	695.70	Joback Method
dvisc	0.0001722	Paxs	486.21	Joback Method

dvisc	0.0002461	Paxs	443.87	Joback Method
dvisc	0.0003792	Paxs	401.54	Joback Method
dvisc	0.0006471	Paxs	359.20	Joback Method
dvisc	0.0012737	Paxs	316.86	Joback Method
dvisc	0.0030893	Paxs	274.53	Joback Method
dvisc	0.0103510	Paxs	232.19	Joback Method

Sources

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
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R133101&Units=SI

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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