

5-ethylindene

Inchi:	InChI=1S/C11H12/c1-2-9-6-7-10-4-3-5-11(10)8-9/h3,5-8H,2,4H2,1H3
InchiKey:	JHWZMOACTHIUIP-UHFFFAOYSA-N
Formula:	C11H12
SMILES:	CCc1ccc2c(c1)C=CC2
Mol. weight [g/mol]:	144.21

Physical Properties

Property code	Value	Unit	Source
gf	233.31	kJ/mol	Joback Method
hf	94.14	kJ/mol	Joback Method
hfus	15.79	kJ/mol	Joback Method
hvap	44.19	kJ/mol	Joback Method
log10ws	-3.38		Crippen Method
logp	2.818		Crippen Method
mcvol	126.930	ml/mol	McGowan Method
pc	3177.55	kPa	Joback Method
rinpol	1203.60		NIST Webbook
rinpol	1203.60		NIST Webbook
rinpol	1203.60		NIST Webbook
tb	498.29	K	Joback Method
tc	721.79	K	Joback Method
tf	288.13	K	Joback Method
vc	0.487	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	269.38	J/mol×K	498.29	Joback Method
cpg	333.39	J/mol×K	684.54	Joback Method
cpg	322.36	J/mol×K	647.29	Joback Method
cpg	310.51	J/mol×K	610.04	Joback Method
cpg	297.78	J/mol×K	572.79	Joback Method
cpg	284.09	J/mol×K	535.54	Joback Method
cpg	343.68	J/mol×K	721.79	Joback Method

dvisc	0.0003752	Paxs	498.29	Joback Method
dvisc	0.0004310	Paxs	463.26	Joback Method
dvisc	0.0005064	Paxs	428.24	Joback Method
dvisc	0.0006123	Paxs	393.21	Joback Method
dvisc	0.0007684	Paxs	358.18	Joback Method
dvisc	0.0010130	Paxs	323.16	Joback Method
dvisc	0.0014282	Paxs	288.13	Joback Method

Sources

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=R20348&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

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
mvol:	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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