

5H-Benz[fg]acenaphthylene

Inchi:	InChI=1S/C15H10/c1-2-10-4-6-12-8-9-13-7-5-11(3-1)14(10)15(12)13/h1-2,4-9H,3H2
InchiKey:	QOIDCPWJFBSWPZ-UHFFFAOYSA-N
Formula:	C15H10
SMILES:	C1=Cc2ccc3c4c(ccc(c24)C1)C=C3
Mol. weight [g/mol]:	190.24
CAS:	194-27-4

Physical Properties

Property code	Value	Unit	Source
gf	464.90	kJ/mol	Joback Method
hf	336.79	kJ/mol	Joback Method
hfus	22.78	kJ/mol	Joback Method
hvap	56.40	kJ/mol	Joback Method
log10ws	-5.23		Crippen Method
logp	3.893		Crippen Method
mcvol	148.670	ml/mol	McGowan Method
pc	3195.54	kPa	Joback Method
tb	625.05	K	Joback Method
tc	875.79	K	Joback Method
tf	417.41	K	Joback Method
vc	0.586	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	360.17	J/mol×K	625.05	Joback Method
cpg	416.15	J/mol×K	834.00	Joback Method
cpg	406.43	J/mol×K	792.21	Joback Method
cpg	396.18	J/mol×K	750.42	Joback Method
cpg	385.19	J/mol×K	708.63	Joback Method
cpg	373.26	J/mol×K	666.84	Joback Method
cpg	425.53	J/mol×K	875.79	Joback Method
dvisc	0.0016686	Pa×s	625.05	Joback Method
dvisc	0.0017182	Pa×s	590.44	Joback Method

dvisc	0.0017758	Pa×s	555.84	Joback Method
dvisc	0.0018433	Pa×s	521.23	Joback Method
dvisc	0.0019236	Pa×s	486.62	Joback Method
dvisc	0.0020205	Pa×s	452.02	Joback Method
dvisc	0.0021397	Pa×s	417.41	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C194274&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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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