

4-Acenaphthylenol

Inchi:	InChI=1S/C12H8O/c13-11-6-9-3-1-2-8-4-5-10(7-11)12(8)9/h1-7,13H
InchiKey:	JKRUSJXWUPHOHB-UHFFFAOYSA-N
Formula:	C12H8O
SMILES:	Oc1cc2c3c(cccc3c1)C=C2
Mol. weight [g/mol]:	168.19

Physical Properties

Property code	Value	Unit	Source
gf	205.86	kJ/mol	Joback Method
hf	93.42	kJ/mol	Joback Method
hfus	23.29	kJ/mol	Joback Method
hvap	60.90	kJ/mol	Joback Method
log10ws	-3.67		Crippen Method
logp	3.029		Crippen Method
mcvol	127.430	ml/mol	McGowan Method
pc	4438.52	kPa	Joback Method
rinpol	264.80		NIST Webbook
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tb	616.50	K	Joback Method
tc	870.55	K	Joback Method
tf	447.34	K	Joback Method
vc	0.440	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	306.25	J/molxK	616.50	Joback Method
cpg	351.70	J/molxK	828.21	Joback Method
cpg	343.69	J/molxK	785.87	Joback Method
cpg	335.37	J/molxK	743.53	Joback Method
cpg	326.50	J/molxK	701.18	Joback Method
cpg	316.87	J/molxK	658.84	Joback Method
cpg	359.61	J/molxK	870.55	Joback Method
dvisc	0.0001414	Paxs	616.50	Joback Method

dvisc	0.0001787	Paxs	588.31	Joback Method
dvisc	0.0002312	Paxs	560.11	Joback Method
dvisc	0.0003073	Paxs	531.92	Joback Method
dvisc	0.0004218	Paxs	503.73	Joback Method
dvisc	0.0006011	Paxs	475.53	Joback Method
dvisc	0.0008956	Paxs	447.34	Joback Method

Sources

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=R572402&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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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