

1-Methylacenaphthylene

Other names:	Acenaphthylene, 1-methyl
Inchi:	InChI=1S/C13H10/c1-9-8-11-6-2-4-10-5-3-7-12(9)13(10)11/h2-8H,1H3
InchiKey:	QALUZRZBRMSBPM-UHFFFAOYSA-N
Formula:	C13H10
SMILES:	CC1=Cc2cccc3cccc1c23
Mol. weight [g/mol]:	166.22

Physical Properties

Property code	Value	Unit	Source
gf	359.27	kJ/mol	Joback Method
hf	238.62	kJ/mol	Joback Method
hfus	19.71	kJ/mol	Joback Method
hvap	50.78	kJ/mol	Joback Method
log10ws	-4.55		Crippen Method
logp	3.714		Crippen Method
mcvol	135.650	ml/mol	McGowan Method
pc	3224.64	kPa	Joback Method
rinpol	266.57		NIST Webbook
rinpol	266.57		NIST Webbook
rinpol	265.24		NIST Webbook
tb	563.74	K	Joback Method
tc	803.57	K	Joback Method
tf	359.41	K	Joback Method
vc	0.529	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	305.82	J/mol×K	563.74	Joback Method
cpg	319.14	J/mol×K	603.71	Joback Method
cpg	331.34	J/mol×K	643.68	Joback Method
cpg	342.56	J/mol×K	683.65	Joback Method
cpg	352.92	J/mol×K	723.63	Joback Method
cpg	362.55	J/mol×K	763.60	Joback Method

cpg	371.58	J/mol×K	803.57	Joback Method
dvisc	0.0012797	Pa×s	359.41	Joback Method
dvisc	0.0011239	Pa×s	393.47	Joback Method
dvisc	0.0010076	Pa×s	427.52	Joback Method
dvisc	0.0009181	Pa×s	461.58	Joback Method
dvisc	0.0008472	Pa×s	495.63	Joback Method
dvisc	0.0007900	Pa×s	529.69	Joback Method
dvisc	0.0007429	Pa×s	563.74	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=R15379&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

Latest version available from:

<https://www.chemeo.com/cid/60-503-6/1-Methylacenaphthylene.pdf>

Generated by Cheméo on 2025-12-05 17:26:25.890768753 +0000 UTC m=+4703783.420809407.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.