1-Methyl-3,4-dihydroxynaphthalene

Other names: 1,2-dihydro-4-methylnaphthalene
Inchi: InChI=1S/C11H12/c1-9-5-4-7-10-6-2-3-8-11(9)10/h2-3,5-6,8H,4,7H2,1H3
InchiKey: NACZXFJTTCJDJR-UHFFFAOYSA-N
Formula: C11H12
SMILES: CC1=CCCc2ccccc21
Mol. weight [g/mol]: 144.22

Physical Properties

Property code	Value	Unit	Source
hf	148.36	kJ/mol	Cheméo Relay (1.0)
hfus	13.69	kJ/mol	Joback Method
hvap	58.53	kJ/mol	Cheméo Relay (1.0)
ie	7.95	eV	Cheméo Relay (1.0)
logp	3.036		Crippen Method
mcvol	126.930	ml/mol	McGowan Method
tb	503.30	K	Cheméo Relay (1.0)
tf	239.96	K	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	269.10	J/mol×K	502.56	Joback Method
cpg	284.80	J/mol×K	541.27	Joback Method
cpg	299.39	J/mol×K	579.97	Joback Method
cpg	312.95	J/mol×K	618.68	Joback Method
cpg	325.55	J/mol×K	657.38	Joback Method
cpg	337.25	J/mol×K	696.09	Joback Method
cpg	348.12	J/mol×K	734.79	Joback Method
dvisc	0.0017269	Pa×s	284.61	Joback Method
dvisc	0.0011033	Pa×s	320.94	Joback Method
dvisc	0.0007721	Pa×s	357.26	Joback Method
dvisc	0.0005772	Pa×s	393.59	Joback Method
dvisc	0.0004532	Pa×s	429.91	Joback Method
dvisc	0.0003695	Pa×s	466.24	Joback Method

dvisc	0.0003103	Pa×s	502.56	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C4373131&Units=SI

Joback Method: https://en.wikipedia.org/wiki/Joback_method

McGowan Method: http://link.springer.com/article/10.1007/BF02311772

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Crippen Method: https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cpg: Ideal gas heat capacity
dvisc: Dynamic viscosity
hf: Enthalpy of formation at standard conditions
hfus: Enthalpy of fusion at standard conditions
hvap: Enthalpy of vaporization at standard conditions
ie: Ionization energy
logp: Octanol/Water partition coefficient
mcvol: McGowan's characteristic volume
tb: Normal Boiling Point Temperature
tf: Normal melting (fusion) point