1,2,3,3A,4,5,5A,6,7,8-DECAHYDROPYRENE

Inchi: InChI=1S/C16H20/c1-3-11-7-9-13-5-2-6-14-10-8-12(4-1)15(11)16(13)14/h7,9,12,14H,1-6
InchiKey: MNXFZXVRYXNOBW-UHFFFAOYSA-N
Formula: C16H20
SMILES: c1cc2c3c4c1CCCC4CCC3CCC2
Mol. weight [g/mol]: 212.34

Physical Properties

Property code	Value	Unit	Source
hfus	21.30	kJ/mol	Joback Method
logp	4.320		Crippen Method
mcvol	179.960	ml/mol	McGowan Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	504.87	J/mol×K	636.26	Joback Method
cpg	525.86	J/mol×K	676.67	Joback Method
cpg	545.29	J/mol×K	717.08	Joback Method
cpg	563.31	J/mol×K	757.48	Joback Method
cpg	580.10	J/mol×K	797.89	Joback Method
cpg	595.82	J/mol×K	838.30	Joback Method
cpg	610.65	J/mol×K	878.71	Joback Method
dvisc	0.0027078	Pa×s	388.60	Joback Method
dvisc	0.0023288	Pa×s	429.88	Joback Method
dvisc	0.0020565	Pa×s	471.15	Joback Method
dvisc	0.0018528	Pa×s	512.43	Joback Method
dvisc	0.0016954	Pa×s	553.71	Joback Method
dvisc	0.0015706	Pa×s	594.98	Joback Method
dvisc	0.0014695	Pa×s	636.26	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Cheméo Relay (1.0):	
Cheméo Relay (1.0, beta):	
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C14698023&Units=SI
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
hfus:	Enthalpy of fusion at standard conditions
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume