

2,3'5,6'-Tetrahydro[2.2]paracyclophane

Inchi:	InChI=1S/C16H20/c1-2-14-4-3-13(1)9-10-15-5-7-16(8-6-15)12-11-14/h1,4-5,8H,2-3,6-7,9
InchiKey:	SOYXMIFOQRQXKU-UHFFFAOYSA-N
Formula:	C16H20
SMILES:	C1=C2CC=C(C1)CCC1=CCC(=CC1)CC2
Mol. weight [g/mol]:	212.33
CAS:	26050-79-3

Physical Properties

Property code	Value	Unit	Source
gf	285.84	kJ/mol	Joback Method
hf	47.97	kJ/mol	Joback Method
hfus	17.02	kJ/mol	Joback Method
hvap	56.90	kJ/mol	Joback Method
ie	8.00	eV	NIST Webbook
ie	8.40	eV	NIST Webbook
log10ws	-5.62		Crippen Method
logp	4.854		Crippen Method
mcvol	186.520	ml/mol	McGowan Method
pc	2485.07	kPa	Joback Method
tb	646.16	K	Joback Method
tc	898.51	K	Joback Method
tf	365.10	K	Joback Method
vc	0.694	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	501.70	J/molxK	646.16	Joback Method
cpg	523.28	J/molxK	688.22	Joback Method
cpg	543.19	J/molxK	730.28	Joback Method
cpg	561.54	J/molxK	772.33	Joback Method
cpg	578.46	J/molxK	814.39	Joback Method
cpg	594.07	J/molxK	856.45	Joback Method
cpg	608.49	J/molxK	898.51	Joback Method

dvisc	0.0021672	Paxs	365.10	Joback Method
dvisc	0.0011925	Paxs	411.94	Joback Method
dvisc	0.0007413	Paxs	458.79	Joback Method
dvisc	0.0005032	Paxs	505.63	Joback Method
dvisc	0.0003648	Paxs	552.47	Joback Method
dvisc	0.0002781	Paxs	599.32	Joback Method
dvisc	0.0002205	Paxs	646.16	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=C26050793&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071

Legend

cp_g:	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
ie:	Ionization energy
log₁₀ws:	Log ₁₀ of Water solubility in mol/l
log_p:	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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