

Tetranaphtho[3,2,1-de:1',2',3'-jk:3",2",;

Other names:	Tetranaphtho[3,2,1-de:1',2',3'-jk:3",2",1"-op:1"',2"',3"'-uv)pentacene
Inchi:	InChI=1S/C50H26/c1-5-13-35-27(9-1)21-31-17-18-32-22-28-10-2-6-14-36(28)48-40-26-4
InchiKey:	MRRUILGWVZWSV-UHFFFAOYSA-N
Formula:	C50H26
SMILES:	c1ccc2c(c1)cc1ccc3cc4ccccc4c4c5cc6c(cc5c2c1c34)c1c2ccccc2cc2ccc3cc4ccccc4c6c3
Mol. weight [g/mol]:	626.74
CAS:	72382-92-4

Physical Properties

Property code	Value	Unit	Source
gf	1644.88	kJ/mol	Joback Method
hf	1236.95	kJ/mol	Joback Method
hfus	85.20	kJ/mol	Joback Method
hvap	154.86	kJ/mol	Joback Method
log10ws	-21.96		Crippen Method
logp	14.401		Crippen Method
mcvol	466.680	ml/mol	McGowan Method
pc	1051.41	kPa	Joback Method
tb	1637.22	K	Joback Method
tc	2017.91	K	Joback Method
tf	1222.36	K	Joback Method
vc	1.851	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2397.64	J/molxK	1637.22	Joback Method
cpg	2598.70	J/molxK	1700.67	Joback Method
cpg	2827.16	J/molxK	1764.12	Joback Method
cpg	3085.18	J/molxK	1827.56	Joback Method
cpg	3374.94	J/molxK	1891.01	Joback Method
cpg	3698.62	J/molxK	1954.46	Joback Method
cpg	4058.40	J/molxK	2017.91	Joback Method
dvisc	0.3998904	Paxs	1222.36	Joback Method

dvisc	0.3954435	Paxs	1291.50	Joback Method
dvisc	0.3914907	Paxs	1360.65	Joback Method
dvisc	0.3879543	Paxs	1429.79	Joback Method
dvisc	0.3847717	Paxs	1498.93	Joback Method
dvisc	0.3818926	Paxs	1568.08	Joback Method
dvisc	0.3792756	Paxs	1637.22	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=C72382924&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀w_s:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	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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