Dinaphtho[1,2-g:1',2'-g']naphtho[2,1-c:7,8-c']diphe

Inchi: InChI=1S/C50H28/c1-3-7-40-29(5-1)9-11-31-13-15-33-17-19-35-21-23-37-25-27-39-28-2
InchiKey: WRIBLYWAWHZTKJ-UHFFFAOYSA-N
Formula: C50H28
SMILES: c1ccc2c(c1)ccc1ccc3ccc4ccc5ccc6ccc7ccc8ccc9ccc%10ccc%11ccccc%11c%10c9c8c7c
Mol. weight [g/mol]: 628.76
CAS: 57468-46-9

Physical Properties

Property code	Value	Unit	Source
gf	1559.38	kJ/mol	Joback Method
hf	1148.27	kJ/mol	Joback Method
hfus	82.62	kJ/mol	Joback Method
hvap	153.83	kJ/mol	Joback Method
ie	6.93	eV	NIST Webbook
log10ws	-21.32		Crippen Method
logp	14.372		Crippen Method
mcvol	477.540	ml/mol	McGowan Method
pc	1012.95	kPa	Joback Method
tb	1628.66	K	Joback Method
tc	2003.27	K	Joback Method
tf	1164.58	K	Joback Method
vc	1.869	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2264.14	J/mol×K	1628.66	Joback Method
cpg	2424.65	J/mol×K	1691.10	Joback Method
cpg	2606.94	J/mol×K	1753.53	Joback Method
cpg	2812.83	J/mol×K	1815.97	Joback Method
cpg	3044.15	J/mol×K	1878.40	Joback Method
cpg	3302.73	J/mol×K	1940.84	Joback Method
cpg	3590.40	J/mol×K	2003.27	Joback Method
dvisc	0.0382713	Pa×s	1164.58	Joback Method

dvisc	0.0357658	Pa×s	1241.93	Joback Method
dvisc	0.0336907	Pa×s	1319.27	Joback Method
dvisc	0.0319468	Pa×s	1396.62	Joback Method
dvisc	0.0304627	Pa×s	1473.97	Joback Method
dvisc	0.0291856	Pa×s	1551.31	Joback Method
dvisc	0.0280760	Pa×s	1628.66	Joback Method

Sources

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=C57468469&Units=SI
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
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:	Log10 of Water solubility in mol/l
logp:	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