

Bisnaphtho[1',2':5,6]phenanthro[3,4-c:4',3'-g]phen

Inchi:	InChI=1S/C54H30/c1-3-7-43-31(5-1)9-11-33-13-15-35-17-19-37-21-23-39-25-27-41-29-3
InchiKey:	FDSRORWATQEJOV-UHFFFAOYSA-N
Formula:	C54H30
SMILES:	c1ccc2c(c1)ccc1ccc3ccc4ccc5ccc6ccc7ccc8ccc9ccc%10ccc%11ccc%12ccccc%12c%11
Mol. weight [g/mol]:	678.82
CAS:	24386-06-9

Physical Properties

Property code	Value	Unit	Source
gf	1690.08	kJ/mol	Joback Method
hf	1245.31	kJ/mol	Joback Method
hfus	89.61	kJ/mol	Joback Method
hvap	165.04	kJ/mol	Joback Method
ie	6.91	eV	NIST Webbook
log10ws	-23.13		Crippen Method
logp	15.525		Crippen Method
mcvol	514.440	ml/mol	McGowan Method
pc	920.50	kPa	Joback Method
tb	1744.14	K	Joback Method
tc	2165.50	K	Joback Method
tf	1254.88	K	Joback Method
vc	2.015	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	2786.64	J/molxK	1744.14	Joback Method
cpg	3035.52	J/molxK	1814.37	Joback Method
cpg	3319.26	J/molxK	1884.59	Joback Method
cpg	3640.67	J/molxK	1954.82	Joback Method
cpg	4002.57	J/molxK	2025.05	Joback Method
cpg	4407.78	J/molxK	2095.27	Joback Method
cpg	4859.12	J/molxK	2165.50	Joback Method
dvisc	0.0594564	Paxs	1254.88	Joback Method

dvisc	0.0558309	Paxs	1336.42	Joback Method
dvisc	0.0528073	Paxs	1417.97	Joback Method
dvisc	0.0502508	Paxs	1499.51	Joback Method
dvisc	0.0480635	Paxs	1581.05	Joback Method
dvisc	0.0461725	Paxs	1662.60	Joback Method
dvisc	0.0445227	Paxs	1744.14	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=C24386069&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
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

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
h_{vap}:	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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