

NAPHTHO[2,1,8-FGH]PENTAPHENE

Inchi:	InChI=1S/C28H16/c1-2-7-19-15-25-24(14-18(19)6-1)22-11-5-9-17-12-13-23-21-10-4-3-8
InchiKey:	GWQNZHNLKCYFOP-UHFFFAOYSA-N
Formula:	C28H16
SMILES:	c1ccc2cc3c(cc2c1)c1cccc2ccc4c5ccccc5cc3c4c21
Mol. weight [g/mol]:	352.44

Physical Properties

Property code	Value	Unit	Source
hf	473.99	kJ/mol	Cheméo Relay (1.0)
hfus	45.46	kJ/mol	Joback Method
hvap	167.40	kJ/mol	Cheméo Relay (1.0)
ie	6.87	eV	Cheméo Relay (1.0)
log10ws	-10.91		Cheméo Relay (1.0)
logp	8.044		Crippen Method
mcvol	269.160	ml/mol	McGowan Method
pc	1947.51	kPa	Joback Method
tb	905.17	K	Cheméo Relay (1.0)
tc	1274.25	K	Cheméo Relay (1.0)
tf	574.64	K	Cheméo Relay (1.0)
vc	1.052	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	812.33	J/mol×K	997.80	Joback Method
cpg	830.69	J/mol×K	1043.48	Joback Method
cpg	850.20	J/mol×K	1089.16	Joback Method
cpg	871.30	J/mol×K	1134.83	Joback Method
cpg	894.41	J/mol×K	1180.51	Joback Method
cpg	919.98	J/mol×K	1226.19	Joback Method
cpg	948.44	J/mol×K	1271.87	Joback Method
dvisc	0.0086256	Pa×s	696.82	Joback Method
dvisc	0.0081349	Pa×s	746.98	Joback Method
dvisc	0.0077289	Pa×s	797.15	Joback Method

dvisc	0.0073878	Pa×s	847.31	Joback Method
dvisc	0.0070975	Pa×s	897.47	Joback Method
dvisc	0.0068476	Pa×s	947.64	Joback Method
dvisc	0.0066304	Pa×s	997.80	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C19301883&Units=SI>

Joback Method:

https://en.wikipedia.org/wiki/Joback_method

McGowan Method:

<http://link.springer.com/article/10.1007/BF02311772>

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
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
mccvol:	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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