INDENO[1,2,3-FG]NAPHTHACENE

Other names: Dibenzo[a,f]fluoranthene
Inchi: InChI=1S/C24H14/c1-3-9-18-15(7-1)13-17-14-16-8-2-4-10-19(16)24-21-12-6-5-11-20(21)
InchiKey: PZYUECVDXQTUBV-UHFFFAOYSA-N
Formula: C24H14
SMILES: c1ccc2c(c1)-c1c3ccccc3cc3cc4ccccc4c-2c13
Mol. weight [g/mol]: 302.38

Physical Properties

Property code	Value	Unit	Source
hf	448.31	kJ/mol	Cheméo Relay (1.0)
hfus	38.47	kJ/mol	Joback Method
hvap	136.74	kJ/mol	Cheméo Relay (1.0)
ie	6.99	eV	Cheméo Relay (1.0)
log10ws	-9.32		Cheméo Relay (1.0)
logp	6.794		Crippen Method
mcvol	232.260	ml/mol	McGowan Method
pc	2241.88	kPa	Joback Method
rinpol	541.57		NIST Webbook
rinpol	551.90		NIST Webbook
rinpol	550.43		NIST Webbook
rinpol	551.90		NIST Webbook
tb	809.91	K	Cheméo Relay (1.0)
tc	1153.75	K	Cheméo Relay (1.0)
tf	532.30	K	Cheméo Relay (1.0)
vc	0.909	m3/kmol	Cheméo Relay (1.0)

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	661.66	J/mol×K	882.32	Joback Method
cpg	676.44	J/mol×K	927.16	Joback Method
cpg	691.24	J/mol×K	972.01	Joback Method
cpg	706.42	J/mol×K	1016.85	Joback Method
cpg	722.35	J/mol×K	1061.69	Joback Method

cpg	739.36	J/mol×K	1106.54	Joback Method
cpg	757.84	J/mol×K	1151.38	Joback Method
dvisc	0.0052883	Pa×s	606.52	Joback Method
dvisc	0.0049439	Pa×s	652.49	Joback Method
dvisc	0.0046630	Pa×s	698.45	Joback Method
dvisc	0.0044300	Pa×s	744.42	Joback Method
dvisc	0.0042338	Pa×s	790.39	Joback Method
dvisc	0.0040664	Pa×s	836.35	Joback Method
dvisc	0.0039222	Pa×s	882.32	Joback Method

Sources

Cheméo Relay (1.0):

Cheméo Relay (1.0, beta):

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C203112&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
mcvol: McGowan's characteristic volume
pc: Critical Pressure
rinpol: Non-polar retention indices
tb: Normal Boiling Point Temperature
tc: Critical Temperature
tf: Normal melting (fusion) point
vc: Critical Volume