

Indeno[1,2,3-cd]fluoranthene

Inchi:

InchiKey:

Formula:

SMILES:

Mol. weight [g/mol]:

CAS:

InChI=1S/C22H12/c1-2-6-14-13(5-1)17-9-10-19-15-7-3-4-8-16(15)20-12-11-18(14)21(17)

XAKRHFYJDSMEMI-UHFFFAOYSA-N

C22H12

c1ccc2c(c1)-c1ccc3c4c(ccc-2c14)-c1ccccc1-3

276.33

193-43-1

Physical Properties

Property code	Value	Unit	Source
gf	729.98	kJ/mol	Joback Method
hf	557.67	kJ/mol	Joback Method
hfus	36.27	kJ/mol	Joback Method
hvap	76.42	kJ/mol	Joback Method
log10ws	-10.18		Crippen Method
logp	6.135		Crippen Method
mcvol	208.380	ml/mol	McGowan Method
pc	2485.07	kPa	Joback Method
rinpol	490.85		NIST Webbook
rinpol	484.67		NIST Webbook
rinpol	488.38		NIST Webbook
rinpol	488.38		NIST Webbook
tb	828.86	K	Joback Method
tc	1092.51	K	Joback Method
tf	590.26	K	Joback Method
vc	0.830	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	658.14	J/mol×K	1092.51	Joback Method
cpg	641.76	J/mol×K	1048.57	Joback Method
cpg	626.73	J/mol×K	1004.62	Joback Method
cpg	612.69	J/mol×K	960.68	Joback Method
cpg	599.31	J/mol×K	916.74	Joback Method

cpg	586.21	J/mol×K	872.80	Joback Method
cpg	573.06	J/mol×K	828.86	Joback Method
dvisc	0.0083814	Pa×s	590.26	Joback Method
dvisc	0.0081374	Pa×s	828.86	Joback Method
dvisc	0.0081674	Pa×s	789.09	Joback Method
dvisc	0.0082008	Pa×s	749.33	Joback Method
dvisc	0.0082380	Pa×s	709.56	Joback Method
dvisc	0.0082799	Pa×s	669.79	Joback Method
dvisc	0.0083273	Pa×s	630.03	Joback Method
hfust	23.20	kJ/mol	542.30	NIST Webbook

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=C193431&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
hfust:	Enthalpy of fusion at a given temperature
hvap:	Enthalpy of vaporization at standard conditions
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

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