Acenaphtho[1,2-k]fluoranthene

Inchi: InChI=1S/C26H14/c1-5-15-6-2-10-18-22-14-24-20-12-4-8-16-7-3-11-19(26(16)20)23(24)1
InchiKey: IBCQJZJYWIVXRR-UHFFFAOYSA-N
Formula: C26H14
SMILES: c1cc2cccc3c4cc5c(cc4c(c1)c23)c1cccc2cccc5c21
Mol. weight [g/mol]: 326.39
CAS: 207-02-3

Physical Properties

Property code	Value	Unit	Source
gf	860.68	kJ/mol	Joback Method
hf	654.71	kJ/mol	Joback Method
hfus	43.26	kJ/mol	Joback Method
hvap	87.62	kJ/mol	Joback Method
log10ws	-11.13		Crippen Method
logp	7.481		Crippen Method
mcvol	245.280	ml/mol	McGowan Method
pc	2143.35	kPa	Joback Method
tb	944.34	K	Joback Method
tc	1213.26	K	Joback Method
tf	680.56	K	Joback Method
vc	0.976	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	717.27	J/mol×K	944.34	Joback Method
cpg	733.65	J/mol×K	989.16	Joback Method
cpg	751.03	J/mol×K	1033.98	Joback Method
cpg	769.83	J/mol×K	1078.80	Joback Method
cpg	790.49	J/mol×K	1123.62	Joback Method
cpg	813.43	J/mol×K	1168.44	Joback Method
cpg	839.08	J/mol×K	1213.26	Joback Method
dvisc	0.0154834	Pa×s	680.56	Joback Method
dvisc	0.0153618	Pa×s	724.52	Joback Method

dvisc	0.0152550	Pa×s	768.49	Joback Method
dvisc	0.0151603	Pa×s	812.45	Joback Method
dvisc	0.0150758	Pa×s	856.41	Joback Method
dvisc	0.0150001	Pa×s	900.38	Joback Method
dvisc	0.0149317	Pa×s	944.34	Joback Method

Sources

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

NIST Webbook: http://webbook.nist.gov/cgi/cbook.cgi?ID=C207023&Units=SI

Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

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
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