Isodrin

Other names:

1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1«alpha»,4«alpha»,4a«beta»,5«beta»,8«beta»,8a«beta»)-

1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, endo,endo-

Compound 711

Isodrin (insecticide)

SD 3418

Experimental insecticide 711

ENT 19,244

1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-endo-1,4-endo-5,8-dimethanonaphtha

1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4,5,8-endo,endo-dimethanonaphtha

1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4:5,8-endo-endo-dimethanonaphtha

1,2,3,4,10,10-Hexachloro-1,4,4a,5,8,8a-hexahydro-1,4-endo,endo-5,8-dimethanonaphtha

Latka 711

Rcra waste number P060

1,4:5,8-Dimethanonaphthalene, 1,2,3,4,10,10-hexachloro-1,4,4a,5,8,8a-hexahydro-, (1R,4S,4aS,5R,8S,8aR)-rel-

(1«alpha»,4«alpha»,4a«beta»,5«beta»,8«beta»8a«beta»)-1,2,3,4,10,10-hexachloro-1,4,4

Inchi: InChI=1S/C12H8Cl6/c13-8-9(14)11(16)7-5-2-1-4(3-5)6(7)10(8,15)12(11,17)18/h1-2,4-7H

InchiKey: QBYJBZPUGVGKQQ-DIFDVCDBSA-N

Formula: C12H8Cl6

SMILES: ClC1=C(Cl)C2(Cl)C3C4C=CC(C4)C3C1(Cl)C2(Cl)Cl

Mol. weight [g/mol]: 364.91

CAS: 465-73-6

Physical Properties

Property code	Value	Unit	Source
gf	222.64	kJ/mol	Joback Method
hf	-16.93	kJ/mol	Joback Method
hfus	30.54	kJ/mol	Joback Method
hvap	65.80	kJ/mol	Joback Method
log10ws	-5.90		Crippen Method
logp	5.270		Crippen Method
mcvol	201.340	ml/mol	McGowan Method
pc	2515.07	kPa	Joback Method
tb	720.49	K	Joback Method
tc	993.87	K	Joback Method
tf	561.82	K	Joback Method
vc	0.792	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	473.55	J/mol×K	720.49	Joback Method
cpg	486.10	J/mol×K	766.05	Joback Method
cpg	499.48	J/mol×K	811.62	Joback Method
cpg	514.47	J/mol×K	857.18	Joback Method
cpg	531.81	J/mol×K	902.74	Joback Method
cpg	552.29	J/mol×K	948.30	Joback Method
cpg	576.66	J/mol×K	993.87	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=C465736&Units=SI
Crippen Method: http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cpg: Ideal gas heat capacity
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