

Propargite

Other names:

Sulfurous acid, 2-[4-(1,1-dimethylethyl)phenoxy]cyclohexyl 2-propynyl ester
Sulfurous acid, 2-(p-tert-butylphenoxy)cyclohexyl 2-propynyl ester
Comite
Cyclosulfyne
D 014
Naugatuck D 014
Omite
Omite 57E
Omite 85E
Propargil
2-(p-tert-Butylphenoxy)cyclohexyl 2'-propynyl sulfite
2-(p-tert-Butylphenoxy)cyclohexyl propargyl sulfite
2-(p-tert-Butylphenoxy)cyclohexyl 2-propynyl sulfite
2-(Para-tert-butylphenoxy)cyclohexyl-2'-propynyl sulfite
BPPS
Propargite, isomer 2
Propargite, isomer 1

Inchi:

InChI=1S/C19H26O4S/c1-5-14-21-24(20)23-18-9-7-6-8-17(18)22-16-12-10-15(11-13-16)

InchiKey:

ZYHMJXZULPZUED-UHFFFAOYSA-N

Formula:

C19H26O4S

SMILES:

C#CCOS(=O)OC1CCCCC1Oc1ccc(C(C)(C)C)cc1

Mol. weight [g/mol]:

350.47

CAS:

2312-35-8

Physical Properties

Property code	Value	Unit	Source
gf	-78.18	kJ/mol	Joback Method
hf	-495.70	kJ/mol	Joback Method
hfus	38.40	kJ/mol	Joback Method
hvap	79.46	kJ/mol	Joback Method
log10ws	-4.96		Crippen Method
logp	3.919		Crippen Method
mcvol	275.180	ml/mol	McGowan Method
pc	1807.70	kPa	Joback Method
rinpol	2403.00		NIST Webbook
rinpol	2398.00		NIST Webbook
rinpol	2402.00		NIST Webbook

ripol	3342.00		NIST Webbook
tb	793.09	K	Joback Method
tc	1025.00	K	Joback Method
tf	498.53	K	Joback Method
vc	1.018	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	832.36	J/mol×K	793.09	Joback Method
cpg	851.92	J/mol×K	831.74	Joback Method
cpg	869.71	J/mol×K	870.39	Joback Method
cpg	885.78	J/mol×K	909.04	Joback Method
cpg	900.15	J/mol×K	947.69	Joback Method
cpg	912.83	J/mol×K	986.34	Joback Method
cpg	923.87	J/mol×K	1025.00	Joback Method

Sources

McGowan Method:

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

NIST Webbook:

<http://webbook.nist.gov/cgi/cbook.cgi?ID=C2312358&Units=SI>

Crippen Method:

<http://pubs.acs.org/doi/abs/10.1021/ci9903071>

Crippen Method:

https://www.chemeo.com/doc/models/crippen_log10ws

Joback Method:

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

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
rinpol:	Non-polar retention indices
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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