Propanoic acid, 3,3'-thiobis-, didodecyl ester

Other names:

Propionic acid, 3,3'-thiodi-, didodecyl ester
Advastab 800
Antioxidant AS
Antioxidant LTDP
Bis(dodecyloxycarbonylethyl) sulfide
Didodecyl 3,3'-thiodipropionate
Dilauryl «beta»,«beta»-thiodipropionate
Dilauryl «beta»,«beta»'-thiodipropionate
Dilauryl 3,3'-thiodipropionate
DLT
DLTDP
DLTP
DMPTP
Ipognox 89
Irganox PS 800
Lauryl 3,3'-thiodipropionate
Neganox DLTP
Plastanox LTDP
Plastanox LTDP Antioxidant
Propionic acid, 3,3'-thiobis-, didodecyl ester
Stabilizer DLT
Thiobis[dodecyl propionate]
Tyox B
3,3'-Thiobis[propionic acid], didodecyl ester
Dilauryl thiodipropionate
Didodecyl thiodipropionate
Carstab DLTDP
D 1 (antioxidant)
Dilauryl «beta»',«beta»'-thiodipropionate
Dilaurylester kyseliny «beta»',«beta»'-thiodipropionove
Lusmit
Milban F
Cyanox LTDP
Thiodipropionic acid didodecyl ester
Arbestab DLTP
Nonox DLTDP
Antiox L
Rasumitto
Sumilizer TPL
Argus DLTDP

Didodecyl 3,3-thiodipropionate
Evanstab 12
Lowinox DLTDP
Thiodipropionic acid dilauryl ester
3,3'-Thiodipropanoic acid,didodecyl ester
D 1
Propanoic acid, 3,3'-thiobis-, 1,1'-didodecyl ester
Dilauryl «beta»-thiodipropionate

Inchi: InChI=1S/C30H58O4S/c1-3-5-7-9-11-13-15-17-19-21-25-33-29(31)23-27-35-28-24-30(32

InchiKey: GHKOFFNLGXMVNJ-UHFFFAOYSA-N

Formula: C30H58O4S

SMILES: CCCCCCCCCCCCOC(=O)CCSCCC(=O)OCCCCCCCCCCCC

Mol. weight [g/mol]: 514.84

CAS: 123-28-4

Physical Properties

Property code	Value	Unit	Source
gf	-233.00	kJ/mol	Joback Method
hf	-1110.26	kJ/mol	Joback Method
hfus	83.16	kJ/mol	Joback Method
hvap	107.50	kJ/mol	Joback Method
log10ws	-9.99		Crippen Method
logp	9.428		Crippen Method
mcvol	464.790	ml/mol	McGowan Method
pc	628.45	kPa	Joback Method
tb	1107.16	K	Joback Method
tc	1398.54	K	Joback Method
tf	606.58	K	Joback Method
vc	1.817	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1666.92	J/mol×K	1107.16	Joback Method
cpg	1688.11	J/mol×K	1155.72	Joback Method
cpg	1706.25	J/mol×K	1204.29	Joback Method
cpg	1721.46	J/mol×K	1252.85	Joback Method

cpg	1733.88	J/mol×K	1301.42	Joback Method
cpg	1743.63	J/mol×K	1349.98	Joback Method
cpg	1750.85	J/mol×K	1398.54	Joback Method

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=C123284&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
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