

Succinic acid, hexadecyl 3-methylbut-3-enyl ester

Inchi:	InChI=1S/C25H46O4/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-21-28-24(26)18-19-25(27)
InchiKey:	QGRPGCRAGCURGG-UHFFFAOYSA-N
Formula:	C25H46O4
SMILES:	<chem>C=C(C)CCOC(=O)CCC(=O)OCCCCCCCCCCCCCCCC</chem>
Mol. weight [g/mol]:	410.63

Physical Properties

Property code	Value	Unit	Source
gf	-228.93	kJ/mol	Joback Method
hf	-933.29	kJ/mol	Joback Method
hfus	63.49	kJ/mol	Joback Method
hvap	88.97	kJ/mol	Joback Method
log10ws	-7.87		Crippen Method
logp	7.300		Crippen Method
mcvol	373.690	ml/mol	McGowan Method
pc	826.21	kPa	Joback Method
rinsol	2811.00		NIST Webbook
tb	920.54	K	Joback Method
tc	1128.93	K	Joback Method
tf	500.11	K	Joback Method
vc	1.466	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1251.49	J/mol×K	920.54	Joback Method
cpg	1271.58	J/mol×K	955.27	Joback Method
cpg	1290.25	J/mol×K	990.00	Joback Method
cpg	1307.53	J/mol×K	1024.74	Joback Method
cpg	1323.46	J/mol×K	1059.47	Joback Method
cpg	1338.11	J/mol×K	1094.20	Joback Method
cpg	1351.50	J/mol×K	1128.93	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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=U353452&Units=SI

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
h vap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
m cvol:	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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