

Sebacic acid, butyl 2,6-dimethylnon-1-en-3-yn-5-yl ester

Inchi:	InChI=1S/C25H42O4/c1-6-8-20-28-24(26)16-13-11-9-10-12-14-17-25(27)29-23(19-18-21
InchiKey:	TYWMFGXXNSYRBI-UHFFFAOYSA-N
Formula:	C25H42O4
SMILES:	C=C(C)C#CC(OC(=O)CCCCCCCCC(=O)OCCCC)C(C)CCC
Mol. weight [g/mol]:	406.60

Physical Properties

Property code	Value	Unit	Source
gf	-31.01	kJ/mol	Joback Method
hf	-671.55	kJ/mol	Joback Method
hfus	59.57	kJ/mol	Joback Method
hvap	90.34	kJ/mol	Joback Method
log10ws	-7.53		Crippen Method
logp	6.378		Crippen Method
mvol	365.090	ml/mol	McGowan Method
pc	916.61	kPa	Joback Method
rinpol	2624.00		NIST Webbook
rinpol	2624.00		NIST Webbook
tb	928.66	K	Joback Method
tc	1137.11	K	Joback Method
tf	576.21	K	Joback Method
vc	1.415	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1198.70	J/molxK	928.66	Joback Method
cpg	1217.25	J/molxK	963.40	Joback Method
cpg	1234.43	J/molxK	998.14	Joback Method
cpg	1250.29	J/molxK	1032.88	Joback Method
cpg	1264.86	J/molxK	1067.63	Joback Method
cpg	1278.17	J/molxK	1102.37	Joback Method
cpg	1290.28	J/molxK	1137.11	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U355806&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
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

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

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