

Succinic acid, tridec-2-yn-1-yl 3-ethylphenyl ester

Inchi:	InChI=1S/C25H36O4/c1-3-5-6-7-8-9-10-11-12-13-14-20-28-24(26)18-19-25(27)29-23-17
InchiKey:	GNCUEHJCCRGNIR-UHFFFAOYSA-N
Formula:	C25H36O4
SMILES:	CCCCCCCCC#CCOC(=O)CCC(=O)Oc1cccc(CC)c1
Mol. weight [g/mol]:	400.55

Physical Properties

Property code	Value	Unit	Source
gf	-2.64	kJ/mol	Joback Method
hf	-551.57	kJ/mol	Joback Method
hfus	62.85	kJ/mol	Joback Method
hvap	94.65	kJ/mol	Joback Method
log10ws	-7.52		Crippen Method
logp	6.012		Crippen Method
mvol	345.630	ml/mol	McGowan Method
pc	1074.98	kPa	Joback Method
rinpol	2932.00		NIST Webbook
rinpol	2932.00		NIST Webbook
tb	964.64	K	Joback Method
tc	1182.62	K	Joback Method
tf	660.87	K	Joback Method
vc	1.337	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1125.74	J/molxK	964.64	Joback Method
cpg	1141.87	J/molxK	1000.97	Joback Method
cpg	1156.58	J/molxK	1037.30	Joback Method
cpg	1169.92	J/molxK	1073.63	Joback Method
cpg	1181.93	J/molxK	1109.96	Joback Method
cpg	1192.66	J/molxK	1146.29	Joback Method
cpg	1202.13	J/molxK	1182.62	Joback Method

Sources

Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci9903071
Crippen Method:	https://www.cheméo.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=U390114&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
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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