

Succinic acid, dec-2-yl 4-(4-methoxyphenyl)cyclohexyl ester

Inchi:	InChI=1S/C27H42O5/c1-4-5-6-7-8-9-10-21(2)31-26(28)19-20-27(29)32-25-17-13-23(14-
InchiKey:	CJNDZFWCIJKSPC-UHFFFAOYSA-N
Formula:	C27H42O5
SMILES:	CCCCCCCC(C)OC(=O)CCC(=O)OC1CCC(c2ccc(OC)cc2)CC1
Mol. weight [g/mol]:	446.62

Physical Properties

Property code	Value	Unit	Source
gf	-279.30	kJ/mol	Joback Method
hf	-968.67	kJ/mol	Joback Method
hfus	55.48	kJ/mol	Joback Method
hvap	99.09	kJ/mol	Joback Method
log10ws	-7.74		Crippen Method
logp	6.727		Crippen Method
mvol	377.420	ml/mol	McGowan Method
pc	953.19	kPa	Joback Method
rinpol	3326.00		NIST Webbook
rinpol	3326.00		NIST Webbook
tb	1038.26	K	Joback Method
tc	1271.13	K	Joback Method
tf	587.68	K	Joback Method
vc	1.431	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1333.76	J/molxK	1038.26	Joback Method
cpg	1349.07	J/molxK	1077.07	Joback Method
cpg	1362.22	J/molxK	1115.88	Joback Method
cpg	1373.26	J/molxK	1154.69	Joback Method
cpg	1382.21	J/molxK	1193.50	Joback Method
cpg	1389.13	J/molxK	1232.31	Joback Method
cpg	1394.05	J/molxK	1271.13	Joback Method
dvisc	0.0002602	Paxs	587.68	Joback Method

dvisc	0.0001298	Paxs	662.78	Joback Method
dvisc	0.0000746	Paxs	737.87	Joback Method
dvisc	0.0000475	Paxs	812.97	Joback Method
dvisc	0.0000326	Paxs	888.07	Joback Method
dvisc	0.0000238	Paxs	963.16	Joback Method
dvisc	0.0000181	Paxs	1038.26	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390042&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
dvisc:	Dynamic viscosity
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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

Latest version available from:

<https://www.chemeo.com/cid/94-810-8/Succinic-acid-dec-2-yl-4-4-methoxyphenyl-cyclohexyl-ester.pdf>

Generated by Cheméo on 2024-04-23 12:40:34.312482458 +0000 UTC m=+16165283.233059783.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.