

Succinic acid, 2-ethylhexyl 4-(4-methoxyphenyl)cyclohexyl ester

Inchi:	InChI=1S/C25H38O5/c1-4-6-7-19(5-2)18-29-24(26)16-17-25(27)30-23-14-10-21(11-15-2
InchiKey:	NEJNFHXTOKTMJU-UHFFFAOYSA-N
Formula:	C25H38O5
SMILES:	CCCCC(CC)COC(=O)CCC(=O)OC1CCC(c2ccc(OC)cc2)CC1
Mol. weight [g/mol]:	418.57

Physical Properties

Property code	Value	Unit	Source
gf	-296.14	kJ/mol	Joback Method
hf	-927.39	kJ/mol	Joback Method
hfus	50.30	kJ/mol	Joback Method
hvap	94.64	kJ/mol	Joback Method
log10ws	-6.55		Crippen Method
logp	5.804		Crippen Method
mvol	349.240	ml/mol	McGowan Method
pc	1077.10	kPa	Joback Method
rinpol	3160.00		NIST Webbook
rinpol	3160.00		NIST Webbook
tb	992.50	K	Joback Method
tc	1217.40	K	Joback Method
tf	565.14	K	Joback Method
vc	1.319	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1210.05	J/molxK	992.50	Joback Method
cpg	1269.32	J/molxK	1179.92	Joback Method
cpg	1261.27	J/molxK	1142.43	Joback Method
cpg	1251.34	J/molxK	1104.95	Joback Method
cpg	1239.51	J/molxK	1067.47	Joback Method
cpg	1225.75	J/molxK	1029.98	Joback Method
cpg	1275.53	J/molxK	1217.40	Joback Method
dvisc	0.0000246	Paxs	992.50	Joback Method

dvisc	0.0000320	Paxs	921.27	Joback Method
dvisc	0.0000437	Paxs	850.05	Joback Method
dvisc	0.0000632	Paxs	778.82	Joback Method
dvisc	0.0000983	Paxs	707.59	Joback Method
dvisc	0.0001689	Paxs	636.37	Joback Method
dvisc	0.0003324	Paxs	565.14	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U390040&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/86-679-4/Succinic-acid-2-ethylhexyl-4-4-methoxyphenyl-cyclohexyl-ester.pdf>

Generated by Cheméo on 2024-04-23 10:54:27.727601755 +0000 UTC m=+16158916.648179070.

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