

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

Inchi:	InChI=1S/C24H36O5/c1-4-5-6-7-18(2)28-23(25)16-17-24(26)29-22-14-10-20(11-15-22)1
InchiKey:	WYIZBKRKMFYMG-UHFFFAOYSA-N
Formula:	C24H36O5
SMILES:	CCCCC(C)OC(=O)CCC(=O)OC1CCC(c2ccc(OC)cc2)CC1
Mol. weight [g/mol]:	404.54

Physical Properties

Property code	Value	Unit	Source
gf	-304.56	kJ/mol	Joback Method
hf	-906.75	kJ/mol	Joback Method
hfus	47.71	kJ/mol	Joback Method
hvap	92.41	kJ/mol	Joback Method
log10ws	-6.48		Crippen Method
logp	5.557		Crippen Method
mvol	335.150	ml/mol	McGowan Method
pc	1148.32	kPa	Joback Method
rinpol	3031.00		NIST Webbook
rinpol	3031.00		NIST Webbook
tb	969.62	K	Joback Method
tc	1192.03	K	Joback Method
tf	553.87	K	Joback Method
vc	1.264	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	1148.58	J/molxK	969.62	Joback Method
cpg	1164.49	J/molxK	1006.69	Joback Method
cpg	1178.52	J/molxK	1043.76	Joback Method
cpg	1190.70	J/molxK	1080.83	Joback Method
cpg	1201.05	J/molxK	1117.89	Joback Method
cpg	1209.59	J/molxK	1154.96	Joback Method
cpg	1216.34	J/molxK	1192.03	Joback Method
dvisc	0.0003740	Paxs	553.87	Joback Method

dvisc	0.0001919	Paxs	623.16	Joback Method
dvisc	0.0001125	Paxs	692.45	Joback Method
dvisc	0.0000727	Paxs	761.74	Joback Method
dvisc	0.0000505	Paxs	831.04	Joback Method
dvisc	0.0000371	Paxs	900.33	Joback Method
dvisc	0.0000285	Paxs	969.62	Joback Method

Sources

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=U390039&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

Legend

cp_g:	Ideal gas heat capacity
dvisc:	Dynamic viscosity
g_f:	Standard Gibbs free energy of formation
h_f:	Enthalpy of formation at standard conditions
h_{fus}:	Enthalpy of fusion at standard conditions
h_{vap}:	Enthalpy of vaporization at standard conditions
log₁₀w_s:	Log ₁₀ of Water solubility in mol/l
log_p:	Octanol/Water partition coefficient
mc_{vol}:	McGowan's characteristic volume
pc:	Critical Pressure
rin_{pol}:	Non-polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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