

Succinic acid, di(2-methoxyphenyl) ester

Inchi: InChI=1S/C18H18O6/c1-21-13-7-3-5-9-15(13)23-17(19)11-12-18(20)24-16-10-6-4-8-14(14)
InchiKey: NEYAXQZCMRWSGC-UHFFFAOYSA-N
Formula: C18H18O6
SMILES: COc1ccccc1OC(=O)CCC(=O)Oc1ccccc1OC
Mol. weight [g/mol]: 330.33

Physical Properties

Property code	Value	Unit	Source
gf	-371.60	kJ/mol	Joback Method
hf	-718.77	kJ/mol	Joback Method
hfus	37.63	kJ/mol	Joback Method
hvap	84.67	kJ/mol	Joback Method
log10ws	-3.99		Crippen Method
logp	2.995		Crippen Method
mvol	243.580	ml/mol	McGowan Method
pc	1964.82	kPa	Joback Method
rinpol	2681.00		NIST Webbook
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tb	871.98	K	Joback Method
tc	1098.00	K	Joback Method
tf	559.28	K	Joback Method
vc	0.911	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	720.00	J/molxK	871.98	Joback Method
cpg	768.57	J/molxK	1060.33	Joback Method
cpg	761.70	J/molxK	1022.66	Joback Method
cpg	753.39	J/molxK	984.99	Joback Method
cpg	743.67	J/molxK	947.32	Joback Method
cpg	732.53	J/molxK	909.65	Joback Method
cpg	774.01	J/molxK	1098.00	Joback Method
dvisc	0.0000425	Paxs	871.98	Joback Method

dvisc	0.0000527	Paxs	819.86	Joback Method
dvisc	0.0000673	Paxs	767.75	Joback Method
dvisc	0.0000890	Paxs	715.63	Joback Method
dvisc	0.0001230	Paxs	663.51	Joback Method
dvisc	0.0001797	Paxs	611.40	Joback Method
dvisc	0.0002817	Paxs	559.28	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=U389720&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l

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

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