

Succinic acid, di(2-methoxybenzyl) ester

Inchi: InChI=1S/C20H22O6/c1-23-17-9-5-3-7-15(17)13-25-19(21)11-12-20(22)26-14-16-8-4-6-
InchiKey: UYMABPQWVBVRMY-UHFFFAOYSA-N
Formula: C20H22O6
SMILES: COc1ccccc1COC(=O)CCC(=O)OCc1ccccc1OC
Mol. weight [g/mol]: 358.39

Physical Properties

Property code	Value	Unit	Source
gf	-354.76	kJ/mol	Joback Method
hf	-760.05	kJ/mol	Joback Method
hfus	42.81	kJ/mol	Joback Method
hvap	89.12	kJ/mol	Joback Method
log10ws	-4.52		Crippen Method
logp	3.271		Crippen Method
mvol	271.760	ml/mol	McGowan Method
pc	1668.70	kPa	Joback Method
rinpol	2813.00		NIST Webbook
rinpol	2813.00		NIST Webbook
tb	917.74	K	Joback Method
tc	1141.32	K	Joback Method
tf	581.82	K	Joback Method
vc	1.024	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	834.35	J/molxK	917.74	Joback Method
cpg	882.11	J/molxK	1104.06	Joback Method
cpg	875.56	J/molxK	1066.79	Joback Method
cpg	867.50	J/molxK	1029.53	Joback Method
cpg	857.95	J/molxK	992.27	Joback Method
cpg	846.90	J/molxK	955.00	Joback Method
cpg	887.16	J/molxK	1141.32	Joback Method
dvisc	0.0000321	Paxs	917.74	Joback Method

dvisc	0.0000401	Paxs	861.75	Joback Method
dvisc	0.0000516	Paxs	805.77	Joback Method
dvisc	0.0000691	Paxs	749.78	Joback Method
dvisc	0.0000968	Paxs	693.79	Joback Method
dvisc	0.0001441	Paxs	637.81	Joback Method
dvisc	0.0002313	Paxs	581.82	Joback Method

Sources

McGowan Method:	http://link.springer.com/article/10.1007/BF02311772
NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U381216&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.cheméo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method

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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