

Succinic acid, naphth-2-ylmethyl 2-methoxyethyl ester

Inchi:	InChI=1S/C18H20O5/c1-21-10-11-22-17(19)8-9-18(20)23-13-14-6-7-15-4-2-3-5-16(15)12
InchiKey:	IGOZRVBVBKTKTH-UHFFFAOYSA-N
Formula:	C18H20O5
SMILES:	COCCOC(=O)CCC(=O)OCc1ccc2ccccc2c1
Mol. weight [g/mol]:	316.35

Physical Properties

Property code	Value	Unit	Source
gf	-262.73	kJ/mol	Joback Method
hf	-620.54	kJ/mol	Joback Method
hfus	39.81	kJ/mol	Joback Method
hvap	80.96	kJ/mol	Joback Method
log10ws	-3.90		Crippen Method
logp	2.853		Crippen Method
mvol	242.010	ml/mol	McGowan Method
pc	1874.03	kPa	Joback Method
rinpol	2711.00		NIST Webbook
rinpol	2711.00		NIST Webbook
tb	836.88	K	Joback Method
tc	1052.50	K	Joback Method
tf	530.81	K	Joback Method
vc	0.923	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	716.04	J/molxK	836.88	Joback Method
cpg	773.37	J/molxK	1016.56	Joback Method
cpg	763.95	J/molxK	980.62	Joback Method
cpg	753.54	J/molxK	944.69	Joback Method
cpg	742.10	J/molxK	908.75	Joback Method
cpg	729.61	J/molxK	872.82	Joback Method
cpg	781.83	J/molxK	1052.50	Joback Method
dvisc	0.0001062	Paxs	836.88	Joback Method

dvisc	0.0001295	Paxs	785.87	Joback Method
dvisc	0.0001621	Paxs	734.86	Joback Method
dvisc	0.0002100	Paxs	683.85	Joback Method
dvisc	0.0002836	Paxs	632.83	Joback Method
dvisc	0.0004037	Paxs	581.82	Joback Method
dvisc	0.0006150	Paxs	530.81	Joback Method

Sources

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=U390752&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws

Legend

cp_g:	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:	Log ₁₀ of Water solubility in mol/l
log_p:	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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