

Succinic acid, naphth-2-ylmethyl but-3-en-1-yl ester

Inchi:	InChI=1S/C19H20O4/c1-2-3-12-22-18(20)10-11-19(21)23-14-15-8-9-16-6-4-5-7-17(16)13
InchiKey:	YFNHZCASWWAULU-UHFFFAOYSA-N
Formula:	C19H20O4
SMILES:	<chem>C=CCCOC(=O)CCC(=O)OCc1ccc2ccccc2c1</chem>
Mol. weight [g/mol]:	312.36

Physical Properties

Property code	Value	Unit	Source
gf	-61.47	kJ/mol	Joback Method
hf	-383.53	kJ/mol	Joback Method
hfus	39.93	kJ/mol	Joback Method
hvap	80.11	kJ/mol	Joback Method
log10ws	-5.08		Crippen Method
logp	3.782		Crippen Method
mcvol	245.930	ml/mol	McGowan Method
pc	1815.41	kPa	Joback Method
tb	834.02	K	Joback Method
tc	1051.57	K	Joback Method
tf	518.09	K	Joback Method
vc	0.943	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	718.57	J/molxK	834.02	Joback Method
cpg	732.36	J/molxK	870.28	Joback Method
cpg	745.14	J/molxK	906.54	Joback Method
cpg	756.94	J/molxK	942.79	Joback Method
cpg	767.84	J/molxK	979.05	Joback Method
cpg	777.87	J/molxK	1015.31	Joback Method
cpg	787.10	J/molxK	1051.57	Joback Method
dvisc	0.0007893	Paxs	518.09	Joback Method
dvisc	0.0005097	Paxs	570.75	Joback Method
dvisc	0.0003544	Paxs	623.40	Joback Method

dvisc	0.0002608	Paxs	676.06	Joback Method
dvisc	0.0002006	Paxs	728.71	Joback Method
dvisc	0.0001598	Paxs	781.37	Joback Method
dvisc	0.0001311	Paxs	834.02	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=U391205&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
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
hvac:	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
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume

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