

Succinic acid, naphth-2-ylmethyl pent-4-en-1-yl ester

Inchi:	InChI=1S/C20H22O4/c1-2-3-6-13-23-19(21)11-12-20(22)24-15-16-9-10-17-7-4-5-8-18(17)
InchiKey:	UIOAIIDAKBFNIHV-UHFFFAOYSA-N
Formula:	C20H22O4
SMILES:	C=CCCCOC(=O)CCC(=O)OCc1ccc2ccccc2c1
Mol. weight [g/mol]:	326.39

Physical Properties

Property code	Value	Unit	Source
gf	-53.05	kJ/mol	Joback Method
hf	-404.17	kJ/mol	Joback Method
hfus	42.52	kJ/mol	Joback Method
hvap	82.33	kJ/mol	Joback Method
log10ws	-5.50		Crippen Method
logp	4.173		Crippen Method
mcvol	260.020	ml/mol	McGowan Method
pc	1675.53	kPa	Joback Method
rinpol	2756.00		NIST Webbook
rinpol	2756.00		NIST Webbook
tb	856.90	K	Joback Method
tc	1073.03	K	Joback Method
tf	529.36	K	Joback Method
vc	0.999	m ³ /kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	775.44	J/molxK	856.90	Joback Method
cpg	789.47	J/molxK	892.92	Joback Method
cpg	802.48	J/molxK	928.94	Joback Method
cpg	814.51	J/molxK	964.96	Joback Method
cpg	825.62	J/molxK	1000.99	Joback Method
cpg	835.86	J/molxK	1037.01	Joback Method
cpg	845.30	J/molxK	1073.03	Joback Method
dvisc	0.0007300	Paxs	529.36	Joback Method

dvisc	0.0004654	Paxs	583.95	Joback Method
dvisc	0.0003204	Paxs	638.54	Joback Method
dvisc	0.0002339	Paxs	693.13	Joback Method
dvisc	0.0001788	Paxs	747.72	Joback Method
dvisc	0.0001418	Paxs	802.31	Joback Method
dvisc	0.0001158	Paxs	856.90	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=U391078&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
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

Latest version available from:

<https://www.chemeo.com/cid/87-420-9/Succinic-acid-naphth-2-ylmethyl-pent-4-en-1-yl-ester.pdf>

Generated by Cheméo on 2024-05-06 20:32:38.78990943 +0000 UTC m=+17316807.710486745.

Cheméo (<https://www.chemeo.com>) is the biggest free database of chemical and physical data for the process industry.