

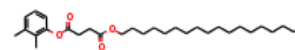
Succinic acid, 2,3-dimethylphenyl octadecyl ester

InChI: InChI=1S/C30H50O4/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-25-33-29(31)23-24-30(32)34-28-22-20-21-26(2)27(28)3/h20-22H,4-19,23-25H2,1-3H3

InChI Key: GAMVMNKXFDZKBD-UHFFFAOYSA-N

Formula: C30H50O4

SMILES: CCCCCCCCCCCCCCCCCCOC(=O)CCC(=O)Oc1ccc(C)c1C



Molecular Weight: 474.72

Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	-172.97	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-938.54	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	72.29	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	104.29	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	8.79		Crippen Method
P_c	728.49	kPa	Joback Method
T_{boil}	1075.02	K	Joback Method
T_c	1331.15	K	Joback Method
T_{fus}	623.64	K	Joback Method
V_c	1.66	m ³ /kg-mol	Joback Method

Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	1496.08	J/mol×K	1075.02	Joback Method
η	0.00	Paxs	1075.02	Joback Method

Sources

Joback Method: https://en.wikipedia.org/wiki/Joback_method

NIST Webbook: [http://webbook.nist.gov/cgi/inchi/InChI=1S/C30H50O4/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-25-33-29\(31\)23-24-30\(32\)34-28-22-20-21-26\(2\)27\(28\)3/h20-22H,4-19,23-25H2,1-3H3](http://webbook.nist.gov/cgi/inchi/InChI=1S/C30H50O4/c1-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-25-33-29(31)23-24-30(32)34-28-22-20-21-26(2)27(28)3/h20-22H,4-19,23-25H2,1-3H3)

Crippen Method: <http://pubs.acs.org/doi/abs/10.1021/ci990307l>

Legend

$C_{p,gas}$: Ideal gas heat capacity (J/molxK).

η : Dynamic viscosity (Paxs).

$\Delta_f G^\circ$: Standard Gibbs free energy of formation (kJ/mol).

$\Delta_f H^\circ_{gas}$: Enthalpy of formation at standard conditions (kJ/mol).

$\Delta_{fus} H^\circ$: Enthalpy of fusion at standard conditions (kJ/mol).

$\Delta_{vap} H^\circ$: Enthalpy of vaporization at standard conditions (kJ/mol).

$logP_{oct/wat}$: Octanol/Water partition coefficient .

P_c : Critical Pressure (kPa).

T_{boil} : Normal Boiling Point Temperature (K).

T_c : Critical Temperature (K).

T_{fus} : Normal melting (fusion) point (K).

V_c : Critical Volume (m³/kg-mol).

Latest version available from:

<https://www.chemeo.com/cid/35-519-7/Succinic%20acid%2C%20%2C3-dimethylphenyl%20octadecyl%20Oester>

Generated by Cheméo on Mon, 06 Dec 2021 05:39:49 +0000.

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