

# Sebacic acid, hexyl 4-nitrophenyl ester

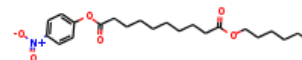
**InChI:** InChI=1S/C22H33NO6/c1-2-3-4-11-18-28-21(24)12-9-7-5-6-8-10-13-22(25)29-20-16-14-19(15-17-20)23(26)27/h14-17H,2-13,18H2,1H3

**InChI Key:** BHANGGWDJHMCMJ-UHFFFAOYSA-N

**Formula:** C22H33NO6

**SMILES:** CCCCCCOC(=O)CCCCCCCCC(=O)Oc1ccc([N+](=O)[O-])cc1

**Molecular Weight:** 407.50



## Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	-195.15	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-772.71	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	63.32	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	102.41	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	5.74		Crippen Method
$P_c$	1180.90	kPa	Joback Method
$T_{\text{boil}}$	1038.84	K	Joback Method
$T_c$	1271.93	K	Joback Method
$T_{\text{fus}}$	664.57	K	Joback Method
$V_c$	1.29	m <sup>3</sup> /kg-mol	Joback Method

## Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	1108.40	J/mol×K	1038.84	Joback Method

## Sources

**Joback Method:** [https://en.wikipedia.org/wiki/Joback\\_method](https://en.wikipedia.org/wiki/Joback_method)

**NIST Webbook:** [http://webbook.nist.gov/cgi/inchi/InChI=1S/C22H33NO6/c1-2-3-4-11-18-28-21\(24\)12-9-7-5-6-8-10-13-22\(25\)29-20-16-14-19\(15-17-20\)23\(26\)27/h14-17H,2-13,18H2,1H3](http://webbook.nist.gov/cgi/inchi/InChI=1S/C22H33NO6/c1-2-3-4-11-18-28-21(24)12-9-7-5-6-8-10-13-22(25)29-20-16-14-19(15-17-20)23(26)27/h14-17H,2-13,18H2,1H3)

**Crippen Method:** <http://pubs.acs.org/doi/abs/10.1021/ci9903071>

## Legend

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

$\Delta_f G^\circ$ : 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).

$\log P_{oct/wat}$ : 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 (m<sup>3</sup>/kg-mol).

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