

# ent-manoyl oxide

**Other names:** -manoyl-oxide.

**InChI:** InChI=1S/C20H34O/c1-7-18(4)13-9-16-19(5)12-8-11-17(2,3)15(19)10-14-20(16,6)21-18/h7,15-16H,1,8-14H2,2-6H3/t15?,16?,18-,19-,20+/m1/s1

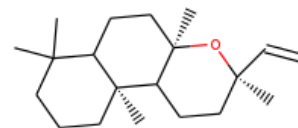
**InChI Key:** IGGWKHQYMAJOHK-XZJNCXDESA-N

**Formula:** C<sub>20</sub>H<sub>34</sub>O

**SMILES:** C=CC1(C)CCC2C(C)(CCC3C(C)(C)CCCC32C)O1

**Molecular Weight:** 290.48

**CAS:** 27642-41-7



## Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	195.90	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-275.16	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	16.18	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	59.02	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	5.74		Crippen Method
$P_c$	1588.54	kPa	Joback Method
$T_{\text{boil}}$	709.15	K	Joback Method
$T_c$	951.08	K	Joback Method
$T_{\text{fus}}$	459.07	K	Joback Method
$V_c$	0.98	m <sup>3</sup> /kg-mol	Joback Method

## Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	821.83	J/mol×K	709.15	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/C20H34O/c1-7-18\(4\)13-9-16-19\(5\)12-8-11-17\(2,3\)15\(19\)10-14-20\(16,6\)21-18/h7,15-16H,1,8-14H2,2-6H3/t15?,16?,18-,19-,20+/m1/s1](http://webbook.nist.gov/cgi/inchi/InChI=1S/C20H34O/c1-7-18(4)13-9-16-19(5)12-8-11-17(2,3)15(19)10-14-20(16,6)21-18/h7,15-16H,1,8-14H2,2-6H3/t15?,16?,18-,19-,20+/m1/s1)

**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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