

# (+)-«gamma»-Tocopherol, O-methyl-

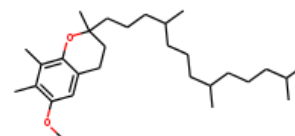
**InChI:** InChI=1S/C29H50O2/c1-21(2)12-9-13-22(3)14-10-15-23(4)16-11-18-29(7)19-17-26-20-27(30-8)24(5)25(6)28(26)31-29/h20-23H,9-19H2,1-8H3

**InChI Key:** YCIZEPRIDWTCRQ-UHFFFAOYSA-N

**Formula:** C<sub>29</sub>H<sub>50</sub>O<sub>2</sub>

**SMILES:** COc1cc2c(c(C)c1C)OC(C)(CCCC(C)CCCC(C)CCCC(C)C)CC2

**Molecular Weight:** 430.71



## Physical Properties

Property	Value	Unit	Source
$\Delta_f G^\circ$	111.91	kJ/mol	Joback Method
$\Delta_f H^\circ_{\text{gas}}$	-649.42	kJ/mol	Joback Method
$\Delta_{\text{fus}} H^\circ$	51.69	kJ/mol	Joback Method
$\Delta_{\text{vap}} H^\circ$	89.76	kJ/mol	Joback Method
$\log P_{\text{oct/wat}}$	8.83		Crippen Method
$P_c$	801.15	kPa	Joback Method
$T_{\text{boil}}$	968.82	K	Joback Method
$T_c$	1186.68	K	Joback Method
$T_{\text{fus}}$	535.21	K	Joback Method
$V_c$	1.52	m <sup>3</sup> /kg-mol	Joback Method

## Temperature Dependent Properties

Property	Value	Unit	Temperature (K)	Source
$C_{p,\text{gas}}$	1391.28	J/mol×K	968.82	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/C29H50O2/c1-21\(2\)12-9-13-22\(3\)14-10-15-23\(4\)16-11-18-29\(7\)19-17-26-20-27\(30-8\)24\(5\)25\(6\)28\(26\)31-29/h20-23H,9-19H2,1-8H3](http://webbook.nist.gov/cgi/inchi/InChI=1S/C29H50O2/c1-21(2)12-9-13-22(3)14-10-15-23(4)16-11-18-29(7)19-17-26-20-27(30-8)24(5)25(6)28(26)31-29/h20-23H,9-19H2,1-8H3)

**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).

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

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