



**Melting Point:** Mp 161°

>>**Derivative:** *N,N*-Di-Me

**Synonym(s):** 7-(Dimethylamino)-4-(trifluoromethyl)coumarin. Coumarin 485. Coumarin 152

**CAS Registry Number:** 53518-14-2

**Molecular Formula:** C<sub>12</sub>H<sub>10</sub>F<sub>3</sub>NO<sub>2</sub>

**Molecular Weight:** 257.212

**Accurate Mass:** 257.066363

**Percentage Composition:** C 56.04%; H 3.92%; F 22.16%; N 5.45%; O 12.44%

**Physical Description:** Laser dye

**Aldrich:** 36332-4

**Sigma:** C9527

>>**Derivative:** *N,N*-Di-Et

**Synonym(s):** 7-(Diethylamino)-4-(trifluoromethyl)coumarin. Coumarin 481. Coumarin 35

**CAS Registry Number:** 41934-47-8

**Molecular Formula:** C<sub>14</sub>H<sub>14</sub>F<sub>3</sub>NO<sub>2</sub>

**Molecular Weight:** 285.265

**Accurate Mass:** 285.097663

**Percentage Composition:** C 58.95%; H 4.95%; F 19.98%; N 4.91%; O 11.22%

**Use/Importance:** Laser dye

**Sigma:** D3771

#### References:

- Aldrich Library of 13C and 1H FT NMR Spectra*, 1992, **3**, 562A, (*nmr*)  
Bissel, E.R. *et al.*, *J.O.C.*, 1980, **45**, 2283, (*synth, pmr, ir*)  
Smith, R.E. *et al.*, *Thromb. Res.*, 1980, **17**, 393; *CA*, **92**, 159413, (*derivs*)  
Bissel, E.R. *et al.*, *J. Chem. Eng. Data*, 1981, **26**, 348, (*derivs*)  
Scheper, T. *et al.*, *Anal. Chim. Acta*, 1986, **182**, 203, (*phenylacetyl*)  
Selladurai, S. *et al.*, *Acta Cryst. C*, 1992, **48**, 281, (*cryst struct*)  
Chinnakali, K. *et al.*, *Acta Cryst. C*, 1992, **48**, 1859, (*cryst struct, N-di-Et*)  
Jasinski, J.P. *et al.*, *Acta Cryst. C*, 1994, **50**, 1928, (*cryst struct, N-di-Me*)